

RIPUC DOCKET 4663 PASCOAG UTILITY DISTRICT'S DEMAND SIDE MANAGEMENT PROGRAM

FY 2017

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November 2, 2016

Ms. Luly Massaro Clerk of the Commission Rhode Island Public Utilities Commission 89 Jefferson Blvd. Warwick RI 02888

Re: RIPUC Docket No. 4663

Dear Ms. Massaro:

On behalf of Pascoag Utility District ("Pascoag" or the "District"), we herewith file an original and nine copies of Pascoag's proposed Demand Side Management Program for 2017. This submission includes Pascoag's Executive Summary, Program Details for 2017, reconciliation of 2016 DSM activities and budget, and other schedules that support this docket.

If you have any questions, please do not hesitate to contact me.

Very truly yours,

Nesarae Molan

Desarae Dolan

DSM Coordinator

Cc: Ms. Karen Lyons, Esquire

Mr. William Bernstein, Esquire

Schedule A-1

Pascoag Utility District Demand Side Management Programs - 2017 Proposed Budget

Estimated carry over from 2016	\$ 39,317	
Estimated sales for 2017	\$ 112,346	
Net 2017 budget	\$ 151,663	

		2017 D	roposed	
		Budget	-	
	Residential Program			
DR1701	ENE Residential Conservation (ECHO)	s	2 580	12 month @ \$215
	Home Energy Audits with Incentives	\$		10 Audits @ \$225, with 10% rebates up to \$100
	Energy Star Appliance Rebates	\$		Up to 80 incentives
	Refrigerators/Freezer Buy Back	s		\$50 incentive & \$20 removal fee for a Refrigerator or Freezer; up to 10 rebates
	Energy Efficient Windows/Doors	\$		Up to 133 windows at \$15 or up to 50 doors at \$40
	Heating System Incentive	\$		12 Rebates at \$250
	ENERGY STAR qualified Water Heaters	\$		6 Rebates at \$150
	Energy Star Lighting fixtures & ceiling/ventilation fans	s		Up to 13 rebates at \$50 maximum
	Home Office Equipment/Home Electronics	\$		30 Rebates at \$50
	Geothermal System	S	100	To keep the line item open
	New Construction	\$		2 Rebates up to \$500 maximum
	Central Air Conditioning	\$		10 Rebates up to \$300 maximum
	Change a Light Campaign	\$		20 Rebates up to \$50 maximum
	Smart Power Strips	\$		25% rebate (average cost is between \$27-\$37)
DR1715	ENERGY STAR Pool Pumps	\$	500	10% of cost up to \$100 maximum; 5 Rebates
DR1716	Desk Calendars- with DSM rebate information	\$	1,000	500- Desk Top Calendars with DSM rebate information
DR1717	Committed for 2016 Programs	\$	2,000	To accommodate programs with depleted funds from 2015
	Net Residential	s	29,380	
	The Hedderstal	*	20,000	
	Industrial/Commercial			
DI1701	Energy Star Incentive - Office Equipment	\$	500	10 Rebates up to \$50 maximum
DI1702	Burrillville School Department	\$	25,000	Replacing T12 fixtures/occupancy sensors at Callahan School & BHS gym lighting and occupancy sensors
DI1703	Committed Funds- Lighting & EE Projects	\$	35,168	Money to be available for Commercial & Industrial Energy Efficiency Projects.
DI1704	Consultation Fees	\$	250	To consult with Rise, National Grid, & ENE
DI1705		\$		2 Appliances up to a maximum of \$350
DI1706	LED Street Light Incentive	\$	10,000	Public Street Lighting Project
	Net Industrial/Commercial	s	71,618	
	The state of the s	•	71,010	
	Administrative/Ad/Education			
DA1701	Administrative	\$	21,000	Administrative labor, mileage, supplies, training session with a luncheon for the CSR's
DA1702	Funds for Follow-up to Successful Programs	\$	1,000	To be used on more successful programs
DA1703	Outreach/Education	\$	7,500	Billing inserts, Culver conservation items, and the DEED membership.
DA1704	Jesse Smith Library Partnership	\$	3,700	To partner with the Jesse Smith Library on an Energy Efficiency Project.
DA1705	Community Events	\$	8,031	To promote Energy Efficient @ Community Events (Green Festival, Family Fair,)
	Burrilville High School Partnership	\$	3,000	free Green and Salan Print
	Energy Efficiency Management continuing education	\$	5,934	Tuition, fight, hotel, meals, APPA Energy Management Certificate Program, additional conferences
DA1708	Program Research and Development	\$	500	Funds for future development of programs
	Net Administrative/Ad/Education	s	50,665	
	Estimated DSM 2016 Budget/ Expenses/ Balance	\$	151,663	
	Estimated DSM 2010 Dudget/ Expenses/ Balance	P	101,003	

<u>Pascoag Utility District</u> <u>Demand Side Management Programs - 2016/2017 Comparison</u>

		2016	2017
Estimated carry over from 2016/2017	\$	23,945 \$	39,317
Estimated sales for 2016/2017	\$	112,652 \$	112,346
Net 2016/2017 budget	*\$	136,597 *\$	151,663

			20	17		
	2016 Ap	proved	Pro	posed		
	Budget		Bud	dget	Change in \$ %	Change
Residential Program						
ENE Residential Conservation (ECHO)	\$	2,580	\$	2,580	\$ -	0%
Home Energy Audits with Incentives	\$	4,875	\$	3,250	\$ (1,625.00)	-33%
Energy Star Appliance Rebates	\$	9,000		6,000		-33%
Refrigerators/Freezer Buy Back	\$	1,050	\$	700	\$ (350.00)	-33%
Energy Efficient Windows/Doors	\$	2,500	\$	2,000	\$ (500.00)	-20%
Heating System Incentive	\$	3,000	\$	3,000	\$ -	0%
ENERGY STAR qualified Water Heaters	\$	900	\$	900	\$ -	0%
Energy Star Lighting fixtures & ceiling/ventilation fans	\$	1,000	\$	650	\$ (350.00)	-35%
Home Office Equipment/Home Electronics	\$	2,500	\$	1,500	\$ (1,000.00)	-40%
Geothermal System	\$	100	\$	100	\$ -	0%
New Construction	\$	1,000	\$	1,000	\$ -	0%
Central Air Conditioning	\$	1,500	\$	3,000	\$ 1,500.00	100%
Change a Light Campaign	\$	1,000	\$	1,000	\$ -	0%
Smart Power Strips	\$	200		200	\$ -	0%
ENERGY STAR Pool Pumps	\$	500	-	500	\$ -	0%
Desk Calendars- with DSM rebate information	\$	900	\$	1,000	\$ 100.00	11%
Committed for 2014 Programs	\$	2,000	\$	2,000	\$ -	0%
					\$ -	
Net Residential	\$	34,605	\$	29,380	\$ (5,225.00)	-15%
1-1-1-1-10						
Industrial/Commercial	_		_		_	
Energy Star Incentive - Office Equipment	\$	500	-	500	\$ -	0%
Burrillville School Department	\$	25,000		25,000		0%
Committed Funds- Lighting & EE Projects	\$	12,000			\$ 23,168.00	193%
Consultation Fees	\$	250		250	\$ -	0%
Energy Star Commercial Appliance	\$	700	70	700	\$ - \$ -	0% 0%
LED Street Light Incentive		10,000	\$	10,000	ų.	
Community Baptist Church	\$	8,045	\$	-	\$ (8,045.00)	-100%
Net Industrial/Commercial	\$	56,495	\$	74 640	\$ - \$ 15,123.00	27%
Net moustrial/Commercial	Þ	36,493	Ф	71,618	\$ 15,125.00	2170
Administrative /Ad/Education						
Administrative/Ad/Education	•	24 000	œ	24 000	•	00/
Administrative	\$	21,000	0.00	21,000		0% -13%
Funds for Follow-up to Successful Programs	\$	1,155		1,000		-13%
Outreach/Education	\$	8,200		7,500	1000	-9% 0%
Jesse Smith Library Partnership	\$ \$	3,700	\$	3,700	\$ - \$ (411.00)	-5%
Community Events Burrillville High School Partnership	\$	8,442	\$	8,031 3,000	\$ 3,000.00	-576
Energy Efficiency Management continuing education	\$	2,500	\$	5,934		137%
Program Research and Development	\$	500	\$	500	\$ 3,434.00	0%
rogram research and Development	Ψ	500	Φ	500	\$ - \$ -	0 70
Net Administrative/Ad/Education	\$	45,497	\$	50,665	\$ 5,168.00	11%
Estimated DSM Budget/ Expenses/ Balance	\$	136,597		151,663	\$ 15,066.00	11%
Latinated Dawi Budget Expenses/ Balance	Φ	130,337	Φ	151,063	φ 10,000.00	1170

Executive Summary-Submitted by Desarae Dolan

Schedule B

RESIDENTIAL PROGRAMS:

The Residential Programs proposed by Pascoag Utility District for 2017 will mirror our 2016 programs, with adjustments to some of the line items based on the activity of the programs over the past year.

The District continues its partnership with ENERGY STAR, a U.S. Environmental Protection Agency (EPA) voluntary program that helps businesses and individuals save money and protect our climate through superior energy efficiency. It is the District's goal to encourage our customers to buy ENERGY STAR compliant products to help control consumption, demand, and reduce greenhouse gas emissions that are contributing to global warming. ENERGY STAR compliant appliances and electronics are being utilized as part of the solution to rising energy costs, and the need for energy efficiency to reduce greenhouse gas emissions. The ENERGY STAR programs that we have in place continue to experience a high customer demand.

However, the District will continue to monitor its programs and will seek permission to reallocate funds should certain programs not perform to expectations. The District is pleased with the activity in the programs for 2016. The District will be adjusting the 2017 line item budget according to this year's activity.

Energy New England ('ENE') - The energy hot line continues to be a very good resource for our residential customers. Customers with questions about high-energy demand can call the toll free number for assistance. Many questions can be answered over the phone. The customer is also offered a home energy audit. Pascoag Utility District is a member of the Energy Advisory committee that meets three to four times a year and discusses the latest information on energy conservation issues. ENE also attended our annual Green Festival to discuss energy conservation and home energy audits with interested customers. The ENE fee is \$215 per month, for a total budget of \$2,580.

ENERGY STAR Audits are a very useful educational tool for homeowners. ENE performed ten audits as of the end of October 2016. Each homeowner was given a report on ways to save energy. Many of the upgrades that are suggested in the audits correspond with programs set up for rebates by the District. It is our finding that customers will take the report and over several years replace things like the boiler, windows, doors, appliances, light fixtures, and light bulbs, thereby taking advantage of the applicable rebates.

The District would like to continue to offer the home energy audits in 2017. The District would like to decrease the number of audits from fifteen to ten; at a cost of \$225 each and have \$100 for each audit available for audit recommendations that are not covered by the rebate programs. The budget for this line item would decrease to \$3,250.

ENERGY STAR appliance rebates did not perform as well as we had hoped, despite numerous efforts to advertise the program. The District has processed rebates totaling \$4,192 through the end of October. The District is proposing to decrease this line item to \$6,000.

The District added a Refrigerator/Freezer Buy-Back Program in 2012. This program encourages our customers to reduce their power bills by removing an old, inefficient refrigerator or freezer from their house. This will help cut the demand of each refrigerator/freezer that is removed and our customers save between 503 to 1,285 kWh annually. The District proposed a budget of \$1,050 in 2016 with an incentive of \$69. The

District has process \$345 through the end of October. In 2017, the District is proposing to slightly decrease the budget to \$700, which will allow for 10 incentives. The rebate includes a removal fee of \$20.

The ENERY STAR Window and Door incentive had an approved budget, of \$2,500 in 2016. The activity for this line item has been steady with incentives totaling \$1,455 being issued through October. The budget will slightly decrease to \$2,000.00 with a rebate of \$15 per window up to 10 windows and \$40 for a door.

The ENERGY STAR Heating Systems program had an approved budget of \$3,000 in 2016. The District has processed seven boiler rebates for a total of \$1,750.00 being issued through October. The District would like to continue to fund this line item at \$3,000 in 2017 and keep the rebate of 10% up to \$250.

The District would like to continue an incentive for the ENERGY STAR qualified Heat Pump Water Heaters and Energy Star Solar Water Heater in combination with an electric hot water heater. Heating water accounts for approximately 15% of a home's energy use. High efficiency water heaters use 10 to 50 percent less energy than standard models, saving homeowners money on their utility bills. The District has processed two rebates for this line item, totaling \$220 and would like to keep this program open in 2017. The District would like to continue to offer a rebate of 15% with a maximum rebate of \$150; this would allow six incentives with a budget of \$900, in 2017.

ENERGY STAR Lighting Fixtures and Ceiling & Ventilations Fans had a budget of \$1,000 in 2016 and we have issued \$188.00 in incentives. The District would like to continue this line item again next year but decrease the budget to \$650.

ENERGY STAR Home Office/Electronic equipment had an approved budget of \$2,500 and we have processed rebates totaling \$494. The District would like to decrease funding to this program to \$1,500 in 2017.

The District seeks to retain the line for Geothermal Systems with a budget of \$100. This will allow us to leave the line item open should we have a request for a geothermal system.

New Construction rebates remain slow. Forbes magazine reported that, "In May, groundbreakings stood at an annual rate of 1.138 million, below the 1.5 million needed to get supply back in line with demand. Adding to the pain–most of the homes that have been built in recent years have been for the luxury consumer, rather than lower price starter homes." The District has not processed any New Construction rebates at this time. The District is requesting that funding remain at \$1,000 for this program. Hopefully when the construction of new homes picks back up, this line item will entice contractors to install ENERGY STAR qualified equipment, which will result in homes that are more efficient. The \$1,000 request will allow the District to process two rebates.

Central Air Conditioning had a budget of \$1,500 in 2016 and the District processed seven rebates for a total of \$1,600. We received four more central air conditioning rebates in October and processed them through Funds for Follow-up to Successful Programs in the amount of \$1,070. The District would like to continue to offer a tiered rebate for central air conditioning. The rebates range from \$200 - \$300. The District believes that a customer purchasing a unit with a higher SEER and EER rating should receive a larger rebate. The ductless mini-split heat pumps are becoming more popular. They are being used to replace air conditioners and heating in older homes. These units are 30% more efficient, give more comfort and control, and can deliver both cooling in the summer and heating in the winter with high efficiency. In the cold

climates, consumers are advised to retain a supplemental heating system, in case back-up heat is needed on very cold days. The District will rebate based on the cooling seasonal energy efficiency rating (SEER) and energy efficiency ratio (EER). The District would like to increase funding of this program to \$3,000 in 2017.

The District would like to continue the Change a Light Campaign even though this program was not as active as in previous years. The District processed \$273 in rebates out of a budget of \$1,000 in 2016. This was the first year in which all rebates processed were for LED lighting only. In 2017, the District would like funding to remain at \$1,000.

In 2017, the District will continue the Smart Power Strip incentive because today's electronics continue to draw electricity that we pay for but do not use. The "Smart" power strip prevents this waste by plugging the main device (computer, TV, etc.) into the primary outlet and its peripherals (printer/scanner or VCR/cable box, etc.) into the other outlets. When the main device is shut down the high-tech, sensors detect this and shut everything else down. The Smart power strips can save up to 72% of the energy a system uses, eliminating 640 lbs. of CO2 per year and offers state-of-the-art surge protection. The District did not receive any applications for rebates for this line item. The District would like to continue to offer an incentive of 25% up to a maximum of \$25 with a budget of \$200, in 2017.

The District would like to continue to offer an ENERGY STAR Pool Pump incentive although the District did not process any rebates this year. Many customers in the District's territory have pools, and each one of these pools use a pool pump that re-circulates water through a filter to maintain water clarity and hygiene. What most pool owners do not realize is how much energy their pool pumps are wasting. Pool pump speeds vary based on the pool's operation. A conventional pool pump with one speed is set to run at the highest speed required to clean the pool. This leads to wasted energy during filtration operations by running faster than necessary. The ENERGY STAR certified pool pumps can run at different speeds and be programmed to match the pools operation with its appropriate pool pump speed. The energy saved is considerable and will save thousands of dollars over its lifetime. On average, an ENERGY STAR pool pump in our area saves over 1,143 kWh or \$160 in a 6-month period from May through September, making the payback less than five years. They also run more quietly and help to prolong the life of the pool's filtering system. The District is proposing a rebate of 10% of the cost up to a maximum rebate of \$100; the proposed budget would be for \$500.

In 2016, the District purchased five hundred desktop Calendars with DSM rebate information for a total cost of \$911.93. The District was able to customize the calendar with a page dedicated to promoting the DSM programs and incentives that are offered. The calendars were distributed to the walk in customer. The District would like to purchase 500 desktop calendars in 2017 for a total budget of \$1,000.

The District is estimating a carryover of \$39,317 from 2016; the District will use \$37,317 of this carryover in the 2017 budget and would like to place \$2,000 into a line item called Committed for 2016 rebates. This would allow us to use these funds to satisfy any outstanding qualified applications in the various residential programs, where the funds have been depleted or for rebates that are received after the books have been closed for 2016. In 2016, the District was able to satisfy \$565 in rebates that qualified in 2015. If the carry over funds placed in the Committed for 2015 Program exceeds the request for qualified rebates, the District proposes moving these funds to the Follow-up to Successful Programs line item and would then seek permission from the Public Utilities Commission and Division of Public Utilities and Carriers, to reallocate the funds as needed in 2017.

COMMERCIAL AND INDUSTRIAL PROGRAMS:

The ENERGY STAR Office Equipment and Electronics Program that was available to our commercial and industrial customers saw a slight decrease in activity this year. We have processed three rebates totaling \$112. The District would like to continue this program with the same level of funding for 2017, with \$500.

Burrillville School Department

The Burrillville School Department is in the process of creating estimates for replacing T12 lighting fixtures in W.L. Callahan Elementary School as well as occupancy sensors. They are also looking into new or retrofit LED lighting in the Burrillville High School gym as well as occupancy sensors. We estimate they will receive \$25,000 in incentives if they complete this project in 2017. The District would like to fund this program with \$25,000.

Committed Funds Lighting and Energy Efficiency Projects completed in 2016:

As of this filing, the District has completed one lighting project, totaling \$617.00 in rebates with 1,622 kwhrs saved annually. The District is hopeful that Pascoag Fire Department will complete a lighting project before the end of 2016 as well.

The District has identified two potential projects for 2017 that would be funded through the Committed Funds Lighting and Energy Efficiency Projects line item:

- Brigido's IGA completed their energy audit and is looking into a lighting project for its Pascoag store. The estimated rebate would be \$21,950 and would save 75,326 kwhrs annually.
- Pine Grove Health Center completed their energy audit and is looking into a lighting project. The estimated rebate would be \$13,218 and would save 91,441 kwhrs annually.

The Consultation fees line item was funded at \$250 to provide assistance from National Grid, RISE Engineering, or Energy New England with the calculation of energy savings on commercial and industrial projects. In 2017, we would like funding to remain the same.

The ENERGY STAR Commercial Appliances program has not processed any rebates in 2016. In 2017, the District is requesting a budget of \$700 for commercial appliances with rebates of 10% up to \$350 and residential appliances using the same amounts from the residential program and making them available under this line item for the commercial customers.

In 2016, Pascoag Utility purchased a total of 610 LED Street light fixtures for a total project cost of \$233,998, which included materials, labor, and transportation cost. The District was awarded a \$150,000 Grant from the Regional Greenhouse Gas Initiative to pay for the materials only. The kWh savings per year will be 178,547. This Lighting project qualifies for a 50% rebate of \$116,999 from the DSM program. The approved budget for the LED Street Light Incentive is \$10,000 for 2016. The District will be purchasing another \$60,000 worth of streetlights in 2017 and because of budget constraints due to an increase in commercial request for lighting incentives; the District will only be able to fund the LED Street Light Project to \$10,000 in 2017.

THE ADMINISTRATION/AD/EDUCATION:

The District staff spends many hours reconciling the budgets, processing rebates, working with potential rebate customers, reporting to the State of Rhode Island's Public Utility Commission, and researching new programs. The budget for the Administration line item was \$21,000, which covers the time spent to oversee this most worthwhile endeavor. The District will continue the annual training session for the customer service representatives to ensure they are able to discuss the criteria for the various programs with the customers; this training session would also include a luncheon. The District would like to fund this program at the same level in 2017.

Funds for Follow-Up to Successful Programs- this program has allowed the District to move funds to the more successful programs as needed. The District used funds from this line item to provide incentives to three Central Air Conditioning Rebates, as those funds have been depleted. The District would like to keep this line item open in 2017 with a budget of \$1,000.

Outreach/Education Program - The District purchased an annual DEED membership through American Public Power. The membership gives the District access to energy efficiency trainings and resources. The District used some of the funds to purchase energy conservation materials and to advertise the rebate program in the Bargain Buyer and with inserts in billing.

The District would like to continue the Outreach and Education line item in 2017 and fund it with \$7,500. This will allow the District to update the website with the programs for 2017 at www.pud-ri.org. The District would also use some of these funds for advertisements in the Bargain Buyer, utilize bill inserts with our programs in 2017, and purchase energy efficiency material to educate our customers, which will include booklets on energy efficiency, along with energy conservation materials. The District would also like to purchase a 2017 membership to the Demonstration of Energy Efficiency Developments Program (DEED).

Jesse Smith Library Partnership- the Jesse Smith Memorial Library in conjunction with Burrillville Recycling and the Pascoag Utility District encouraged students in grades K-6 to create Earth Day Posters depicting why it is important to recycle and conserve energy in Burrillville. A total of twelve winning posters were chosen to be included in a 2017 calendar, which will contain energy conservation and recycling tips. An awards ceremony was held on May 17, 2016 to recognize the winners of the contest. The District would like to continue to fund this line item at \$3,700. This would allow the District staff to create and purchase energy conservation and recycling calendars for 2017 and help host the awards ceremony with the Library and Burrillville Recycling.

Community Events -The 10th Annual Public Power Green Festival was held on Saturday, September 10, 2016. The District continued its partnership with the Town of Burrillville's Parks and Recreation Department to host the event at the Still Water Mill Center. The first five-hundred customers received reusable grocery bags filled with energy efficient materials and recycling tips. There were activities for children, which included a recyclable crafts, bucket rides, face painting and games. This year we ran a science workshop with PowScience on electricity for school-aged children.

Many vendors attended the Green Festival this year and a list of vendors has been included in this filing under Schedule H along with a map of the event. This event continues to grow each year. The District hosted a booth, which provided customers with energy conservation handouts and answered related questions. The District's staff also helped out at the welcome booth, on the table with raffle items, and with

rides on the bucket truck. The raffle items were donated by the vendors and local businesses to raise money for the Weekend Back Pack Project, a nonprofit agency that helps children in need. The event was very successful and by sharing the cost with the Town, the District was able to attend other events in the community.

In 2017, the District would like to continue the line item for community events in the amount of \$8,031. We will continue to partner with Burrillville Parks and Recreation to host the Green Festival, which allows the event to be more cost efficient. The partnership saves the District money, which in turn allows the District to host energy efficiency workshops at the farmers market during the summer season, and attend the Family Fair.

The District added a new line item to the budget in 2017 for the Burrillville High School Partnership in the amount of \$3,000. Currently, staff have been working with Principal Michael Whaley on developing a partnership with their Environmental Sciences program.

Energy Efficiency Management Continuing Education-In 2016, the newly appointed DSM Coordinator was able to attend several workshops through Northeast Energy Efficiency Partnership (NEEP). The District would like to increase funding to the Energy Efficiency Management Education line item in 2017 to \$5,934. This would allow the newly appointed DSM coordinator to participate in the American Public Power-Spring Education Institute to earn the Energy Efficiency Management Certificate. The training is being held this May in Minneapolis, Minnesota. Twenty hours of continuing education in the energy efficiency field is required every two years to maintain the Energy Efficiency Certificate.

Program Research and Development was created when the District wanted to research LED Street lights. The line item gives the District the ability to research products for possible incentives. The District spent \$121 in 2016 to attend the Boston Green Festival to research ways to improve our Green Festival. The District would like to fund this line item with \$500 in 2017.

Pascoag's proposed budget is based on a forecast of Sales for 2017 of 56,173,000 kwhrs. The estimated budget is \$112,346 for 2017. The District anticipates a \$39,317 carryover fund from 2016, which would bring the total 2017 budget to \$151,663.

2017 Program Details

Schedule C

RESIDENTIAL PROGRAMS

In 2017, Pascoag plans to continue all of the current Residential Programs from 2016. The customer demand still continues and the District believes these programs will continue to be successful in 2017. This summary will detail the programs proposed for 2017 and will review the success of the 2016 programs.

Energy New England - Residential Conservation Services \$2,580:

Pascoag will continue its relationship with Energy New England ("ENE") in 2017. The Residential Conservation Service ("RCS") provides invaluable technical support to the District staff as well as its customers.

In addition to this support, ENE supplies fulfillment materials to the customers of the District. The materials include energy smart CD's, conservation booklets, and reference materials and resources. ENE sponsors a toll free energy hotline that is available to customers during normal business hours. Pascoag refers customers with high consumption complaints to this hotline after performing a meter test to rule out a faulty meter. If the customers' questions cannot be resolved over the phone, ENE schedules a home energy audit, which goes into detail as to how the customer can conserve energy. This year Pascoag tested 9 meters¹ and sent letters to each customer referring these customers to the toll free energy hotline. ENE also attended the 10th Annual Green Festival. ENE answered energy related questions and handed out flyers on energy efficiency.

ENE also sponsors an Advisory Group. The Advisory Group includes people from several municipal utilities from the New England area. This group meets quarterly to share ideas on all aspects of energy conservation. Pascoag is a member of the Advisory Group.

The cost for this service will remain at \$215 per month in 2017.

Audits with Follow-Up Incentives-\$3,250:

Pascoag would like to provide ten audits in 2017, along with a maximum rebate of \$100 for incentive followup. This would allow the following:

10- Audits @ \$225 each \$2,250

Money available for 10 incentives @ \$100 each \$1,000

The cost of home energy audits will remain at \$225, in 2017. Energy New England often suggests measures that include insulation for the walls and attic, weather stripping, pipe insulation, and electrical outlet insulation. The District does not have rebates for these items and would like to continue to offer a rebate of 10%, up to \$100 per customer, to encourage them to implement these recommendations. The suggested

¹ Meters were proven to be within acceptable accuracy limits except in one instance where it had been hit by lightning.

measures must be implemented in the same calendar year as the audit to qualify for the incentive and cannot be a duplicate of a program already established for rebates.

The District has no auditors on staff, and has found it to be more cost effective to use ENE's certified auditors.

ENERGY STAR Appliance Rebates: \$6,000

Pascoag would like to fund this line item at \$6,000 in 2017. This program did not perform as well as we expected this year, despite our best efforts to remind customers about this program's availability.

When a customer purchases an appliance, there are two price tags for the item: what you pay to take it home and what you pay for the energy and the water it will use. ENERGY STAR compliant models typically use 10-40% less energy and water compared to the standard models.

Energy Star Appliance:	Savings:
Clothes Washer	25% less energy and 40% less water
Dehumidifier	15% less energy
Dishwasher	12% less energy
Refrigerator and/or Freezer	10% less energy
Air Conditioner	10% less energy
Clothes Dryer	20% less energy

There are multiple benefits to using ENERGY STAR qualified appliances. They save customers money by using less energy and they help to reduce greenhouse gas emissions, which aids in the fight against climate change.

Additionally, many of the District's customers call before making an appliance purchase to make sure the models they are interested in qualify for rebates.

2017 Proposed Appliance Rebate Program	Incentive
Refrigerator, freezer, clothes washer and electric clothes dryer	10% not to exceed \$75.00
Dishwasher or air purifier	10% not to exceed \$50.00
Air conditioner	10% not to exceed \$25.00
Dehumidifier	10% not to exceed \$20.00

Refrigerator/Freezer Buyback Program: \$700

The District would like to continue the refrigerator/freezer buyback program in 2017. This program encourages our customers to reduce their power bills by removing an old inefficient refrigerator or freezer from their house. The Energy Star website estimates there are more than 60 million refrigerators over ten years old that cost consumers \$4.7 billion dollars a year in energy costs. The District increased the incentive from \$50 to \$70 to offset the recycle charge in 2015, which increased the activity for this program. The District would like to decrease the budget in 2017 to allow the removal of 10 refrigerators or freezers and ensure that they do not end up back on the grid in someone else's home. A second refrigerator/freezer removal program will cut demand and reduce the residential energy consumption.

The customer must contact the District office so we can verify the following requirements for a second refrigerator or freezer:

- They must be between 10 to 30 cubic feet using inside measurements.
- The refrigerator or freezer must be in working order.
- The customer will fill out a form with the model and make of the refrigerator/freezer and give the approximate age.

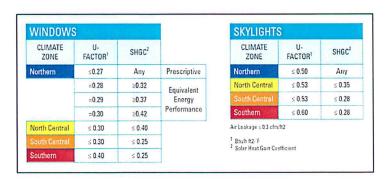
Once the criteria are met, the customer will be instructed to call Waste Management at 1-800-972-4545 to schedule an appointment to pick up the appliance. After the pickup is verified, the customer will receive a \$70 rebate, which will be applied to their electric account.

The District would like to decrease the funds to this line item to \$700; a rebate of \$50 and a removal fee of \$20 will allow us to process 10 incentives.

ENERGY STAR Windows/Skylights and Doors Incentive: \$2,000

The budget for 2016 was \$2,500 and by October, the District has processed \$1,455 in rebates. The District would like to slightly decrease funding to \$2,000 in 2017. When a customer purchases ENERGY STAR compliant windows, doors and skylights for the northern area, they will realize energy savings in lower energy use. These windows and doors also help reduce heat loss in the winter and offer protection from the summer sun, and reduce condensation and interior fading. ENERGY STAR qualified windows, doors and skylights keep your home cooler in the summer and warmer in the winter.

The District will keep the incentive at \$15 per window, up to a maximum of ten windows per customer and \$40 for one door. To qualify all windows and doors must meet energy efficiency standards:



GLAZING LEVEL	U- FACTOR ¹	SHGC ²	
Opaque	≤ 0.17	No Rating	
≤ ½-Lite	≤ 0.25	≤ 0.25	
. 1/ 1:4-	. 0.20	Northern North-Central	≤ 0.40
> ½-Lite	≤ 0.30	Southern South-Central	≤ 0.25

ENERGY STAR Heating System Incentives: \$3,000

The District would like to continue the funding for heating system replacement at \$3,000, in 2017. The District issued six rebates totaling \$1,750 as of October of 2016.

With the price of fuel to heat a home today, many homeowners are replacing their older systems with ENERGY STAR compliant gas and oil boilers/furnaces and making every drop of fuel count. Although these products are expensive to purchase up front, the cost difference is paid back over time through lower energy bills.

The ENERGY STAR compliant oil and gas furnaces have annual fuel utilization efficiency (AFUE) ratings of 85% and 95%, making them up to 16% more efficient than standard models. These furnaces are estimated to save customers between \$66 and \$94 in energy costs per year.

ENERGY STAR qualified boilers have annual utilization efficiency (AFUE) rating of 87% or greater. Whether the fuel is gas or oil, they are up to 12% more energy efficient than standard models. They achieve greater efficiency with improved features like electronic ignition that eliminates the need to have a pilot light burning all the time; new combustion technologies that extract more heat from the same amount of fuel; and sealed combustion that uses outside air to fuel the burner, reducing drafts and improving safety.

The District would like to keep the incentive at \$250 in 2017. This will allow twelve customers to take advantage of this program.

ENERGY STAR Solar and Electric Heat Pump Water Heaters: \$900

The District would like to continue to offer an incentive on ENERGY STAR qualified solar hot water heaters and ENERGY STAR heat pump water heaters. The potential for savings are listed below:

ENERGY STAR Solar Water Heaters can be used in combination with another back-up system. Using the sunshine to heat or preheat the water in combination with an electric tank water heater as backup will cut your annual hot water costs in half.

ENERGY STAR Heat Pump Water Heaters can save the average household \$330 per year and 2,690 kwhrs compared to a standard electric hot water heater.

The District processed two rebates that totaled \$220.00. The District would like to fund this program at the same level in 2017. An incentive of 10% of the cost, not to exceed \$150 will allow us to process six incentives in 2017.

ENERGY STAR Lighting Fixtures/Ceiling and Ventilation Fans: \$650

The District would like to reduce funding to this program to \$650 in 2017. We would like to continue the fifty percent rebate on lighting fixtures and ENERGY STAR ceiling and ventilation fans. The District processed six rebates totaling \$188, as of October 2016.

ENERGY STAR qualified lighting fixtures uses 75% less energy than incandescent lighting. They distribute light more efficiently and more evenly than the standard fixture. They come in hundreds of decorative styles including portable fixtures like table, desk and floor lamps, and hard-wired fixture options like front porch, dining room, kitchen ceiling and under-cabinet, hallway ceiling and wall bathroom vanity fixtures and ceiling fan lighting fixtures. Many fixtures have convenient features such as dimming on some indoor models and automatic daylight shut-off and motion sensors on outdoor models.

ENERGY STAR ceiling fans/light combination units are 60% more efficient than standard models. They operate with less noise, have high performance motors, and improved blade design that provides better performance.

The incentive will remain at 50%, with a cap of \$50.

Home Office Equipment/Home Electronics: \$1,500

The District would like to fund this line item at \$1,500 in 2017. The incentives for this line item will remain 15% of the cost, up to a maximum rebate of \$50. The District has processed \$494.00 in rebates through October. The District feels that the demand for office and electronic rebates will continue to be strong especially in the month of December.

ENERGY STAR compliant office equipment such as computers, monitors and imaging equipment like printers and copiers help to eliminate waste though special energy efficient designs. They use less electricity and when they are not in use enter into a low-power mode. The specifications for many office products continue to change making it more difficult to earn the ENERGY STAR label. The products now are 25-50% more efficient than standard equipment. The products that fall under office equipment are: computers, laptops, copiers, fax machines, digital duplicators, external power adapters, notebook computers/tablet PC's, mailing machines, computer monitors, digital picture frames, printers, scanners, all in one units, water coolers, and computer servers.

The products that fall under home electronics are audio/video such as Home-Theater-in-a-box systems, audio amplifiers, AV receivers, shelf systems, DVD players, Blu-ray disc players, docking stations for audio amplification or optical disc drive functions, battery charging systems such as cordless power tools, cordless yard care tools, hand held vacuums, personal care products, digital-to-analog converter boxes, cordless phones, and combination units, external power adapters, televisions and set-top boxes imaging equipment.

The District would like to fund this line item at \$1,500 with a rebate of 15% not to exceed \$50.

Incentives for Geothermal Systems or a Ground Source Heat Pump (GHP): \$100

Although the District has no firm commitments for this line item, we would like to continue to keep the line item open because of the potential savings.

The geothermal heat pumps are similar to ordinary heat pumps, but they use the ground instead of the outside air to provide heating, air conditioning and hot water. By using the earth's natural heat, they are among the most efficient and comfortable heating and cooling technologies currently available. They use about 45% less energy than a standard heat pump, and they are quieter than a conventional system. ENERGY STAR certified heat pumps must meet the following specifications:

Requirements (Effective January 1, 2012)		
Product Type	EER	СОР
Water-to-Air		
Closed Loop Water-to-Air	17.1	3.6
Open Loop Water-to-Air	21.1	4.1
Water-to-Water		
Closed Loop Water-to-Water	16.1	3.1
Open Loop Water-to-Water	20.1	3.5
DGX		
DGX	16.0	3.6

The District would like to keep this line open should there be any future requests. The incentive would be 5% of the cost with a maximum rebate of \$350.

New Construction Rebates: \$1,000

The District has not processed any rebates in 2016 but would like funding to remain at \$1,000 for 2017. The budget of \$1,000 will allow us to process two rebates with a cap of \$520 per unit /home.

This line item is an excellent way to encourage contractors to upgrade to ENERGY STAR compliant windows, doors, skylights, heating systems, appliances, lighting fixtures, central air conditioning, and water heaters. Since the current building code in the town of Burrillville does not require the contractors to install Energy Star compliant products, the District feels this program is a great way to encourage energy efficiency in the construction process and to reduce the demand for electricity from these new housing developments.

Central Air Conditioning: \$3,000

The District has processed eleven rebates totaling \$2,570 in 2016. The District would like to increase funding to this line item in the amount of \$3,000 due to its popularity.

About one-seventh of all the electricity in the US is used to air condition buildings. ENERGY STAR qualified central air conditioners have a higher seasonal efficiency rating (SEER) than standard models, which makes them 8% more efficient than standard models. ENERGY STAR certified central air conditioners must meet the following specifications:

Equipment	Specification
Air-Source Heat Pumps	≥ 8.5 HSPF/ ≥15 SEER/ ≥12.5 EER* for split systems ≥ 8.2 HSPF ≥15 SEER/ ≥12 EER* for single package equipment including gas/electric package units.
Central Air Conditioners	≥15 SEER/ ≥12.5 EER* for split systems ≥15 SEER/ ≥12 EER* for single package equipment including gas/electric package units.

The District is proposing a tiered incentive based on the efficiency of the cooling unit. This would allow up to 10 rebates.

Energy Star Light Bulbs: \$1000

The ENERGY STAR label on lighting means you are getting a product that is superior in energy efficiency. ENERGY STAR qualified compact fluorescent light bulbs (CFLs) use 70%-90% less energy than incandescent bulbs and last fifteen times longer. ENERGY STAR decorative light strings use 75% less energy than conventional incandescent light strings, last ten times longer, and are cool to the touch. The ENERGY STAR qualified decorative light strings that feature LED technology are 90% more efficient. The electricity used by just one 7-watt incandescent bulb, can power 140 LEDs or enough to power a 25-foot string of LEDs.

The District proposes a rebate of 50% of the cost of the LED & CFL light bulbs with a cap of \$50 per customer. The District would like funding to remain at the same level of \$1,000 for 2017.

Desk Calendars with DSM Rebate Information: \$1000

In 2016, the District purchased 500 Desk Calendars that are personalized with information about the DSM rebates and directs our customers to our website for applications. Customers enjoy the calendars and have the DSM rebate information in a useful location.

The District would like to continue this program and is proposing a budget of \$1000 for this line item.

"Smart" Power Strips: \$200

Although the District did not receive any rebates for this program, we would like to continue to offer an incentive on smart power strips. The power strips are a way to reduce the amount of power being drawn by computers and electronic accessories when they are not in use. The smart power strips monitor power consumption and can sense the difference between when a device is on or off and can shut the power off, eliminating the idle current being drawn from the item. Most smart power strips have two always-on outlets, a master control outlet and 2-6 controlled outlets that automatically turn off or on as the master appliance is turned on or off. Standby power costs the average U.S. household \$100 annually.

The incentive will remain at 25%, up to a maximum rebate of \$25.

ENERGY STAR Qualified Pool Pump Program: \$500

The District is proposing a rebate on ENERGY STAR qualified pool pumps, which will include the two-speed, and variable speed models that are listed on the ENERGY STAR web site.

The Department of Energy and Environmental Protection Agency has set new ENERGY STAR criteria for pool pumps. ENERGY STAR rated pool pumps use 70% less energy than standard pool pumps. The estimated cost savings from operating an ENERGY STAR efficient pool pump is between \$280-\$340 per year; making the payback period less than two years.

The District has not processed any rebates for this item but is proposing keeping a rebate of 10 percent, not to exceed \$100. This would allow for five rebates in 2017.

Committed for 2016 Programs: \$2,000

The District is estimating a carryover of funds from 2016 in the amount of \$39,317. The District would like to use \$37,317 of these funds in the 2017 budget and use \$2,000 to satisfy 2016 qualified rebates for customers who do not receive a rebate because the funds for a particular program had been depleted in 2016 or for rebates that are turned in after the books are closed for 2016; the cutoff date for 2016 rebates would be February 15, 2017.

COMMERCIAL & INDUSTRIAL PROGRAMS

ENERGY STAR Incentive - Office Equipment/Electronics: \$500

The District issued three incentives totaling \$112 through October of 2016. The District continues to promote this program. The District would like to continue this program at the same level of funding in 2017.

The office equipment and electronics have the same savings that are mentioned in the Home Office Equipment/Home Electronics program. The incentive will remain at 25% of the cost, with a cap not to exceed \$50.

Industrial and Commercial Projects 2017:

Burrillville School Department:

The District has been working with the School Department on multiple energy efficiency projects. To date, they have replaced 36 exterior lighting fixtures for new 12-watt LED lights and put in 20 occupancy sensors throughout the High School. The project cost \$15,040 and they have received a rebate of \$3,260.00. This part of the project will save 8,491 kwhrs annually. The second part of this project should be completed in November/December of this year.

Committed Funds-Lighting and Energy Efficiency Projects:

Pascoag Utility District spent \$1,028.40 on retrofit LED kits for the District office. The retrofit kits will save the District 1,622 kwhrs annually. The project incentive was \$617.04.

Pascoag Fire Department is also looking into completing lighting and energy efficiency projects before the end of the year.

Committed Funds 2017- Lighting and Energy Efficiency Projects: \$35,168

The District would like to allocate funds to this line item in order to accommodate unidentified and identified projects. Often, businesses will approach the District after the file date, and ask to be considered for a rebate on a project. This line item gives the District a source of funds to work from, so we do not miss an opportunity to work with our business customers on energy efficiency projects.

The District would like to keep the rebates for lighting projects at 60% on retrofit projects and 40% on new lighting projects in 2017. These incentives have enticed customers to make the necessary changes to increase their energy efficiencies. The District would like to allocate \$35,168 to this line item and make the funds available on a first come first serve basis.

The District has identified the following projects for 2017:

- Brigido's IGA completed their energy audit and is looking into a lighting project for its Pascoag store. The estimated rebate would be \$21,950 and would save 75,326 kwhrs annually.
- Pine Grove Health Center completed their energy audit and is looking into a lighting project. The estimated rebate would be \$13,218 and would save 91,441 kwhrs annually.

Consultation fees: \$250

National Grid, RISE Engineering and Energy New England continue to provide verification of savings on the commercial and industrial projects on an as needed basis. This line item will remain at \$250 for 2017.

ENERGY STAR Commercial Appliances: \$700

The District has not processed any rebates to date. The District would like to continue to offer the businesses the same rebate criteria as seen under the residential appliance program for residential appliances.

The following appliance would qualify for rebates:

Commercial Dishwashers that earn the ENERGY STAR rating on average are 40% more energy efficient and 40% more water efficient than standard models.

Commercial Fryers that earn the ENERGY STAR rating are up to 35% more energy efficient than standard models. They also offer shorter cook times and higher production rates through advanced burner and heat exchanger designs.

Commercial Ice Machines that earn the ENERGY STAR rating are on average 15% percent more energy efficient and 23% more water efficient than standard models.

Commercial Hot Food Holding Cabinets that have earned the ENERGY STAR rating are 65% more efficient than standard models. Models that meet the requirements incorporate better insulation, reducing heat loss, and may offer additional energy saving devices such as magnetic door gaskets, auto-door closures, or Dutch doors.

Commercial Griddles that earn the ENERGY STAR rating are about 10% more energy-efficient than standard models. A qualified grill can save 1,200 kWh annually.

Commercial Ovens that earn the ENERGY STAR rating are 20% more energy-efficient than standard models. These ovens can save 1,870 kWh annually.

Commercial Refrigerators & Freezers that meet the ENERGY STAR specifications will be 40% more energy efficient than a standard option because they are designed with components such as high

efficiency compressors and improved coil design, electronically commutated motors, variable speed fans, and efficient interior lighting.

Commercial Steam Cookers, also known as compartment steamers that meet the ENERGY STAR qualifications are up to 50% more energy-efficient than standard models. They can save 11,500 kWh annually.

The District proposes a rebate of 10% with a cap of \$350 for commercial appliance or the following for the smaller Residential Appliances:

A commercial or industrial customer purchasing an ENERGY STAR compliant residential appliance will receive a rebate of up 10% not to exceed the following for each appliance: refrigerator, freezer, clothes washer, and dryers up to \$75. A customer purchasing an ENERGY STAR compliant dishwasher or air purifier will receive an incentive up to \$50; an ENERGY STAR air conditioner will receive an incentive up to \$25; an ENERGY STAR dehumidifier will receive incentive up to \$20. The same savings would apply as listed under residential ENERGY STAR Appliance Rebates.

2017 LED Street Light Incentive: \$10,000

In 2016, Pascoag Utility purchased a total of 610 LED street light fixtures for a total project cost of \$233,998, which included materials, labor, and transportation cost. Please see the table below for the cost and annual kilowatt-hour savings from this project. The District was awarded a \$150,000 Grant from the Regional Greenhouse Gas Initiative to pay for the materials only.

TYPE of Fixture	Number purchased:	Material Cost	Labor Cost	Transportation Cost	Annual kWh Saving
24 Watt LED SL	427	\$62,769	\$41,718	\$17,080	
49 Watt LED SL	88	\$14,960	\$8,598	\$3,520	
50 Watt LED SL	20	\$ 5,260	\$1,954	\$800	
72 Watt LED Decorative SL	24	\$ 1,580	\$ 2,345	\$960	
120 Watt LED Flood Lights	51	\$32,079	\$4,983	\$2040	
MISC Materials/ Brackets		\$25,956			
TOTAL	610	\$150,000	\$59,598	\$24,400	178,547 kWh

The District's staff recently finished installing the fixtures. The project qualifies for a 50% rebate of \$116,999 from the DSM program. The approved budget for the LED Street Light Incentive is \$10,000 for 2016. The District will be purchasing another \$60,000 worth of streetlights in 2017 but due to budget constraints because of an increase in commercial requests for lighting incentives; the District will only be able to fund the LED Street Light Project to \$10,000 in 2017.

ADMINISTRATIVE/AD/EDUCATION PROGRAMS

Administrative Expenses: \$21,000

The funds will be used to pay for staff time, schools and seminars related to DSM, and reimbursement of mileage when employees use their private vehicles for DSM related activities.

Pascoag has three Customer Service Representatives who devote many hours to the DSM programs by working with the customers, taking the applications for rebates on the various programs and answering questions over the phone and in person. The DSM Coordinator spends many hours researching the compliance of the various rebates that are submitted, reconciling the DSM programs, and updating existing programs as well as creating new programs for the next year and requesting reallocation of funds. In addition, the Assistant General Manager works with the commercial and industrial customers on various C & I projects and performs site visits.

The District would also like to perform a training session with the Customer Service Representatives and include a luncheon again this year to train them on the latest criteria regarding DSM rebates for 2017.

The District would like to fund this line item at \$21,000 in 2017.

Follow-Up to Successful Programs: \$1,000

The District is requesting a line item to allow some flexibility in transferring funds up to ten percent to other programs with a high customer demand. If the carry over funds exceed our estimate, the District is proposing to move these funds to the Funds for Follow-up to Successful Programs line item in the 2017 budget. Any transfer would only be done with the Division's approval.

Outreach/Education Program: \$7,500

The District took several opportunities to educate the public on energy efficiency matters this year. We attended the Family Fair and spoke to classes at Burrillville High School about ways in which they can be involved with energy conservation projects. Customers received energy efficient information products at the Family Fair and Green Festival. We also distribute information at our office for walk in customers.

A budget of \$7,500 is requested, to use some of these funds to update the website in 2017, process bill inserts promoting the various programs, and to run advertisements in the local paper. We would

also like to purchase fulfillment materials, such as night-lights, refrigerator thermostats and other conservation materials, which will be given away at the District's customer outreach events.

In addition, the District would like to purchase an annual subscription to the DEED Program again in 2017, this allows us to see what other utilities across the United States are doing in regards to energy efficiency projects.

Jesse Smith Library Partnership - \$3,700

The District collaborated with the Jesse Smith Library and Burrillville Recycling for an Earth Day Contest, which encouraged students, grades K -8 to create posters on why recycling and energy conservation was important. The top twelve posters were chosen and will be included in a 2017 Calendar with recycling and conservation messages. An awards ceremony was held at the library and each participant received a certificate issued by the Town Council.

In 2017, the District would again like to collaborate with the Jesse Smith Library and Burrillville Recycling. This would allow us to continue the partnership for an Earth Day Poster contest for both energy efficiency and recycling. A budget of \$3,700 is requested and would be used to help fund prizes, materials, labor, and refreshments for the awards ceremony and allow us to create calendars with the posters that will hang in customers' homes for twelve months.

Community Events: \$8,031

In 2016, funds were used to purchase supplies, create and distribute flyers for the Green Festival, change date/time on banners and signs and to pay for staff time at the 10th Annual Green Festival. Many hours were dedicated to the preparation of the event. The Pascoag Utility District partnered with the Town of Burrillville's Parks & Recreation Department and hosted the event at the Stillwater Mill Center at 100 Tinkham Lane. This partnership continues to very rewarding. The Festival had something for everyone. Festivalgoers learned about local products and ideas to help them conserve energy and create a more sustainable lifestyle. There were free crafts, face painting, games, and bucket truck rides for the children. The event was very successful at raising funds from a raffle for a local nonprofit agency called the Backpack Project. We also ran an electricity workshop for schoolage children with PowScience. The weather for this event was beautiful and the attendance was very high.

The District would like to continue the line item for Community Events. The District will continue the partnership with the Town of Burrillville Parks and Recreation Department in hosting the Green Festival again next year. This will allow us to attend other events in the community where we can promote the DSM programs available to the District's customers.

The District would like to fund this line item at \$8,031 in 2017.

Burrillville High School Partnership: \$3,000

The District added a new line item to the budget in 2017 for the Burrillville High School Partnership in the amount of \$3,000. Over the course of many years, the District staff worked with Charles Boucher's classes on various energy conservation projects. Pascoag had assisted with the purchase of video and computer equipment and up-grades to software, which in return was used to create conservation videos, logos, and animated characters that encouraged the use of energy conservation. Mr. Boucher retired in 2009 and since then, PUD staff has had a difficult time finding another teacher to collaborate with for similar projects. Currently, staff have been working with Principal Michael Whaley on a partnership with their Environmental Sciences program. This year the class would like to work on energy conservation campaigns at the High School. The first project would be a mural at the student entrance with energy conservation messaging. They would also plan other awareness events quarterly and message them in the school, utilizing their newsletter and their parent messaging system. Funds from this line item would help pay for materials needed in the classroom and would go toward an end of year cookout where the students present their projects.

Energy Efficiency Management Continuing Education funds: \$5,934

In 2016, the newly appointed DSM coordinator was able to attend several energy efficiency workshops through Northeast Energy Efficiency Partnerships (NEEP). In 2017, she would like to attend the American Public Power Association's Spring Education Institute to earn a certificate in Energy Efficiency Management.

The District would like to increase funding in this line item to \$5,934 in 2017 so the DSM coordinator can attend the Spring Education Institute and other learning opportunities.

Program Research and Development: \$500

The District would like to fund this line item with \$500 to have a source of funds to help develop future energy efficient programs. Staff were able to attend the Boston Green Festival this year to research ways to improve the District's Green Festival.

Schedule D-1

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379 Attended Boston Green Festival to continue developing our Green Festival Pascoag Utility District Demand Side Management Programs - 2016 Actual Expenses and Balances through October 2016 18,130 29,450 92,336 42,075 112,652 154,727 2016 Approved Burilivile School Department Committed Funds- Lighting & EE Projects Consultation Fees Energy Start Commercial Appliance LED Street Light Incentry Community Baptist Church unds for Follow-up to Successful Programs ndustrial/Commercial nergy Star Incentive - Office Equipment utreach/Education sse Smith Library Partnership ommunity Events 4dministrative/Ad/Education Actual carry over from 2015 Estimated sales for 2016 Net 2016 budget

Schedule D-2

<u>Pascoag Utility District</u> <u>Demand Side Management Programs - 2016 Projected Expenses and Balances</u>

Actual carry over from 2015	\$ 42,075	
Estimated sales for 2016	\$ 112,652	
Net 2016 budget	\$ 154,727	

		2016	Approved	Pro	jected	Pro	jected
			get	Expenses		Balance	
	Residential Program						
DR 1601	ENE Residential Conservation (ECHO)	\$	2,580	\$	2,580	\$	-
	Home Energy Audits with Incentives	\$	4,875	\$	2,925	\$	1,950
	Energy Star Appliance Rebates	\$	9,000		4,492		4,508
	Refrigerators/Freezer Buy Back	\$	1,050		405		645
	Energy Efficient Windows/Doors	\$	2,500		1,755		745
	Heating System Incentive	\$	3,000	\$	2,000	\$	1,000
	ENERGY STAR qualified Water Heaters	\$	900	\$	220	\$	680
	Energy Star Lighting fixtures & ceiling/ventilation fans	\$	1.000		288	\$	712
	Home Office Equipment/Home Electronics	\$	2,500	\$	594	\$	1.906
	Geothermal System	\$	100	\$	-	\$	100
	New Construction	\$	1.000		520	\$	480
		\$	1,500			\$	
	Central Air Conditioning				1,700		(200)
	Change a Light Campaign	\$	1,000	\$	273	\$	727
	Smart Power Strips	\$	200	\$	-8	\$	200
	ENERGY STAR Pool Pumps	\$	500			\$	500
	Desk Calendars- with DSM rebate information	\$	900	- 5	912	\$	(12)
DR 1617	Committed for 2015 Programs	\$	2,000	\$	565	\$	1,435
	Net Residential	\$	34,605	\$	19,229	\$	15,376
	Industrial/Commercial						
DI1601	Energy Star Incentive - Office Equipment	\$	500	\$	112	\$	388
DI1602	Burrillville School Department	\$	25,000	\$	25,000	\$	-
DI1603	Committed Funds- Lighting & EE Projects	\$	12,000	\$	12,000	\$	(0)
DI1604	Consultation Fees	\$	250	\$	-	\$	250
DI1605	Energy Star Commercial Appliance	\$	700	\$	-	\$	700
DI1606	LED Street Light Incentive	\$	10.000	\$	10,000	\$	-
DI1607	Community Baptist Church	\$	8,045	\$	8,045	\$	-
	Net Industrial/Commercial	\$	56,495	\$	55,157	\$	1,338
	Administrative/Ad/Education						
DA1601	Administrative	\$	21,000	\$	21,000	\$	0
	Funds for Follow-up to Successful Programs	\$	1,155	\$	1,070	\$	85
	Outreach/Education	\$	8,200		6,616		1,584
	Jesse Smith Library Partnership	\$	3,700		3,700	0.50	(0)
	Community Events	\$	8,442	200	7.669		773
		- 2	10 10 10 10 10	\$	849	8	0.000
	Energy Efficiency Management continuing education Program Research and Development	\$ \$	2,500 500	100	121	\$	1,651 379
	Unassigned Money from Actual Carryover	\$	18,130	\$	-	\$	18,130
	Net Administrative/Ad/Education	\$	63,627	\$	41,023	\$	4,474
	Estimated DSM 2016 Budget/ Expenses/ Balance	\$	154,727	\$	115,410	\$	39,317

Schedule E

Pascoag Utility District Savings Associated with Completed Conservation Projects January-June 2016

Project	kWh Savings		Dolla	irs (0.134/kwhr)
Appliance Rebates 2016		11084.00	\$	1,482.98
Appliance Rebates Committed 2015		724.00	\$	97.02
Refrigerator/Freezer Buyback		4856.00	\$	650.70
Home Office Equipment		102.00	\$	13.67
Home Office Equipment Committed 2015		0.00	\$	-
Commercial Office Equipment		0.00	\$	=:
Central Air Conditioning		1495.00	\$	200.33
Central Air Conditioning Committed 2015		0.00	\$	-
Lightbulb Rebates CFL & LED Bulbs		6364.00	\$	852.78
Total:		24625.00	\$	3,299.75
Additional Projects:	Notes:			
Residential Boiler Replacements	Energy Cost Saved \$5	54x3=\$162		
	Energy Consumption	Saved (MMI	3TU)4	1x3=12
	Energy Consumption	(Gallons) 30	x2=6	0
Residential Boiler Replacements Committed 20:	15 Energy Cost Saved - N	I/A		

Residential Boiler Replacements Committted 2015 Energy Cost Saved -N/A

Energy Consumption Saved (MMBTU) N/A

Energy Consumption (Gallons) N/A

Windows and Doors

7 Homes replaced 1 door and 29 windows

Replacing single pane windows would be a savings of \$3,400.00 annually Replacing double pane windows would be a savings of \$1,080.00 annually

Schedule E

Pascoag Utility District Savings Associated with Completed Conservation Projects July-October 2016

Project	kWh Savings	Dollars	(0.134/kwhr)
Appliance Rebates 2015		12458.00 \$	1,482.98
Appliance Rebates Committed 2014		0.00 \$	1.5
Refrigerator/Freezer Buyback		2652.00 \$	355.37
Home Office Equipment		134.00 \$	17.96
Home Office Equipment Committed 2014		0.00 \$	-
Commercial Office Equipment		31.00 \$	4.15
Central Air Conditioning		6728.00 \$	901.55
Central Air Conditioning Committed 2014		0.00 \$	
Lightbulb Rebates CFL & LED Bulbs		2694.00 \$	361.00
Total:		24697.00 \$	3,309.40

Additional Projects:	Notes:
Residential Boiler Replacements	Energy Cost Saved \$142x7=\$994
	Energy Consumption Saved (MMBTU)6x7=42
	Energy Consumption (Gallons) 41x7=287

Residential Boiler Replacements Committed 2014 N/A

Windows and Doors

23 Homes repaced 73 windows and 9 doors

Replacing single pane windows would be a savings of \$3,400.00 annually Replacing double pane windows would be a savings of \$1,080.00 annually

Committed Funds:

Pascoag Utility District

1,622 kwhrs saved annually

Schedule F

Pascoag Utility District- Electric Department ("Department") Demand Side Management Charge

The following provisions will be apply to reflect charges collected under the Demand Side Management Program, pursuant to "An Act Relating to the Utility Restructuring Act of 1996", #96-H 8124 Substitute B, Section 39-2-1.2(b).

The District proposes to include a charge of 2.3 mills per kilowatt-hour delivered to fund a demand side management program and renewable energy resources. The allocation of this revenue between demand side management programs and renewable energy resources shall be determined by the Commission.

The District will submit semi-annual reports to the Commission documenting funds collected and expended. In the event that revenue collected over or under anticipated revenue, the Department shall apply to the Commission for an annual "true-up".

Approval Issued:

Requested Effective Date:

January 1, 1998

Approval Date:

March 20, 1998

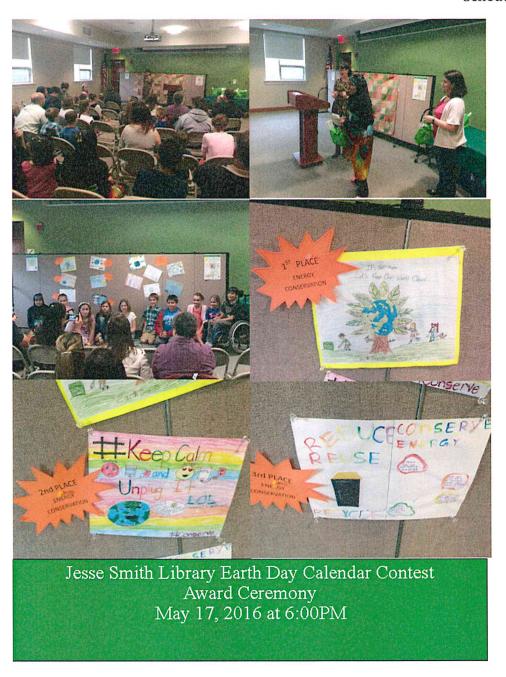
Expenses					
DELECTION OF THE PROPERTY OF T	CETOMET PARTIES OF THE RESIDENCE OF THE SECOND CONTRACT SECOND		OCCUPANTE EN SE PER EN TRE THE PROPERTY OF THE	Estimate	Actua
Total Expenses				\$2,121.40	
	Estimate	Actual		Estimate	Actua
Labor			Refreshments	What is the company of the territory	
AS	\$268.29		Food Drinks for the PUD Staff	\$25.00	
PC	\$268.11		Candy for the kids	\$50.00	
Totals	\$536.40	\$0.00	Totals	\$75.00	
Misc. Items/ Handouts			Program		
Culver Items	\$1,500.00		Vendor Fee	\$10.00	\$0.00
Totals	\$1,500.00	\$0.00	Totals	\$10.00	\$0.00
Advertisements				usigne averages	
			Totals	\$85.00	\$0.00
Totals	\$0.00	\$0.00			
Totals	\$2,036.40	\$0.00			

Advertisements Totals \$45.00	A STATE OF THE PARTY OF THE PAR		ummer Workshop			European
Estimate						Expenses
Estimate	Actua					
Refreshments State State		\$702.60		《美国教育》		Total Expenses
S	Actua	Estimate		Actual	Estimate	
Candy for the kids \$20.00	Company of the second		Refreshments		建设的基础表现。	Labor
Totals \$357.60 \$0.00 Totals \$357.60 \$0.00 Totals \$45.00		\$25.00	Food Drinks for the PUD Staff		\$178.86	AS
Program Vendor Fee		\$20.00	Candy for the kids		\$178.74	·c
Misc. Items						
		\$45.00	Totals	\$0.00	\$357.60	Totals
Vendor Fee			Program	Share to the same	Parkers Abreside and	Misc. Items/ Handouts
Advertisements Totals \$45.00					\$300.00	
Advertisements Totals \$45.00						_
Advertisements Totals \$45.00						
Advertisements Totals \$45.00		40.00		40.00	*200.00	
Totals \$45.00	\$0.00	\$0.00	iotais	\$0.00	\$300.00	lotais
	one of the dates					Advertisements
Totals \$0.00 \$0.00	\$0.00	\$45.00	Totals	¢0.00	£0.00	Totals
				\$0.00	\$0.00	lotais
				\$0.00	\$0.00	Iotais
Totals \$657.60 \$0.00						

Actual	Refreshments Food Drinks for the PUD Staff Candy for the kids	Estimate \$7,925.00 Estimate \$125.00 \$60.00	Actua Actua
Actual	Food Drinks for the PUD Staff	\$7,925.00 Estimate \$125.00	
Actual	Food Drinks for the PUD Staff	\$125.00	Actua
Actual	Food Drinks for the PUD Staff	\$125.00	Actua
	Food Drinks for the PUD Staff	120000000000000000000000000000000000000	
		120000000000000000000000000000000000000	
\$0.00	Totals	\$185.00	
	Program		
THE RESERVE THE PARTY OF THE PA		\$300.00	\$0.00
¢0.00	Totals	\$300.00	\$0.00
\$0.00	Iodis	\$300.00	30.00
			Charles In
\$0.00	Totals	\$485.00	\$0.00
	\$0.00	\$0.00 Program Misc. Items/Games/Supples \$ Totals	Misc. Items/Games/Supples

		nary for all Estimate		
Expenses	СССК ФООСКССЬ — ЕТ 1524 год во бого СКОСТОЙ РЕВРЕСОВЕНСКИЙ ССОРОЙОВООТНО В СТОИМВРОМ	015440140040201705020450504065057422011450*0*0*0*0*0*0*0*0*0*0*0*0*0*0*0*0*0*0*	Estimate	Actua
Total Expenses			\$21,498.00	Actua
	Estimate	Actual	Estimate	Actua
Total Expenses		WERE STORY FOR THE STORY STORY		
Family Fair	\$2,121.40			
Summer Workshop	\$702.60			
Green Festival	\$7,925.00			
Totals	\$10,749.00	\$0.00		

Schedule H



Schedule H



10th Annual Green Festival September 10, 2016 at 10AM-2PM

Schedule H

2016 Green Festival Vendors

- 1. Burrillville Parks and Recreation/Recycling
- 2. Pascoag Utility District
- 3. Face Painters
- 4. Jesse Smith Library
- 5. Betty's Bee Farm
- 6. Burrillville Historical Society
- 7. Ace Solar Store
- 8. Burrillville Land Trust
- 9. Save the Lakes
- 10. Pascoag Public Library
- 11. Northeast Solar and Wind
- 12. Maloney Properties
- 13. Klinkmann Solar/Toxics Info Project
- 14. Yoga and Yoga Therapy with Anita Bevans
- 15. Munroe Dairy
- 16. Pure Haven Essentials
- 17. The Attic Project
- 18. Claude's Cycles
- 19. URI Energy Fellows
- 20. USDA
- 21. Northwest Supporters of Open Space
- 22. Blackstone Heritage Corridor
- 23. Rhode Island College-Environmental Sciences Program
- 24. Celadon Road
- 25. Healthy Homes
- 26. Energy New England
- 27. Sunwatt Solar
- 28. PowScience

Schedule H



Pascoag Utility District and the Town of Burrillville's Parks and Recreation Department are teaming up to hold the 10th Annual Green Festival on Saturday, September 10, 2016 from 10:00-2:00 PM at the Stillwater Mill Center -100 Tinkham Lane, Harrisville RI 02830. The event is free to the public!

The Festival has something for everyone! Learn about local products and ideas that will help you conserve energy and create a more sustainable lifestyle. There will be free crafts, face painting and bucket truck rides for children.

This year Pow Science will be running a special children's electricity workshop in the Jesse Smith community room. Lights light, buzzers buzz and stuff literally starts flying around during this engaging, electrical extravaganza! They'll even use one of the best electrical conductors around-the human body-to complete a circuit the whole group will be a part of!

There will be a session at 11AM for grades 3 and up. Pre-registration is required. Space is limited. Please contact the Children's Department at the Jesse Smith Library (710-7800 x 2) to sign up.

The Burrillville Farmers Market will be under the Pavilion selling their amazing vegetables, baked goods and other fine products. Stop by and see all the great things they have to offer! Kids can make a free craft!

Soulfull Fried Chicken and Elwood's Dog House will be on site offering lunch and snacks to purchase! Musician, Dave Laprise of Accordian Cool will be performing music from big band, old standards, fifties, country, rock n' roll, and light jazz.

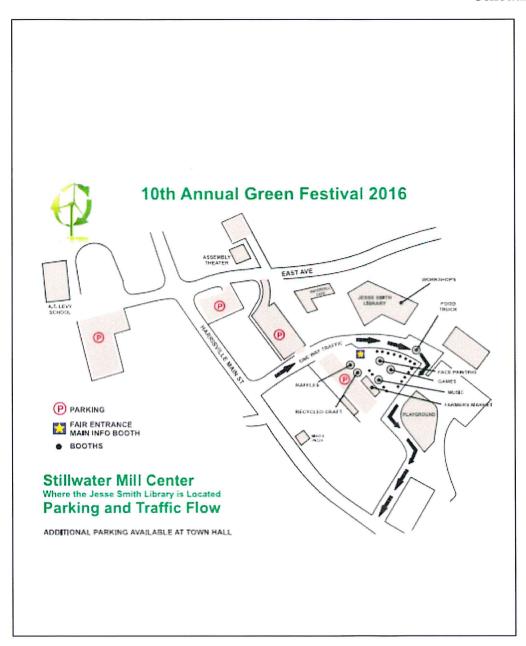
And in honor of it being our 10th anniversary, which we think is a pretty big deal-we're going BIG!!! Giant yard size Checkers, Twister, Connect 4 and many other fun games to play!!! Best of all, it's free!

First 500 attendees get free bags packed with information and goodies!

Save the Date!



Schedule H



RIPUC DOCKET 4663

Schedule I – Customer Information



Halloween is almost here, and a band of spooky energy vampires could be lurking around your home. Unfortunately, these energy-slurping electronics are not interested in candy, but rather sucking your electrical outlets bone dry while raising your energy bills every month.

These so-called "energy vampires" are appliances that continue to draw power from electrical outlets, even when turned off or idle. While these vampires won't suck your blood, some of these appliances can cause substantial increases to your energy usage, costing you and your family hundreds of dollars per year.

According to the U.S. Department of Energy's Lawrence Berkeley National Laboratory, an appliance constantly taking in 1 watt of electrical current is equivalent to 9kWh per year, adding up to \$1 in annual costs (basically \$1/watt/annual). Considering how many appliances are used in an average household, costs can quickly add up to \$100-200 a year.

To prep you for the colder and more expensive energy months, we've prepared a list of cleverly ghoulish (and practical) actions to take care of energy vampires in your home for good:

IN THE BATHROOM—UNPLUG THAT HAIR DRYER



No, unfortunately hanging garlic is not step one. But your morning shave and blowout could be a cause for concern if you're leaving devices like hair dryers, curling irons, or electric shavers plugged into the wall. Even when turned off, these devices can idly sip electricity from your outlet costing you money. Outsmart those pesky energy vampires and tug the plug.

If not, timed power switches are a great way to turn the lights on before you get home or even make sure you didn't burn the house down with your curling iron. Consider one of these handy devices in your bathroom if you're forgetful or busy in the morning (and who isn't?). Peace of mind can be just as valuable as energy savings.

IN THE KITCHEN



You're primped and ready to head to work, but you have yet to finish that pot of coffee. Before you leave for the day, make a habit of turning off all unnecessary kitchen appliances, especially that new espresso machine. Granted, coffee makers only use 1-3 watts when off, but add that to your microwave, small kitchen television, toaster oven, and other unused appliances and you could save \$10-20 per year.

IN THE LIVING ROOM

Older set-top cable boxes and DVRs in your living room are some of the most frightening of energy vampires, as they're less efficient than newer models. Some of these devices are constantly draining 25-45 watts of energy when off. To

mitigate this energy waste, hook up your entertainment center and other living room appliances to power strips or an outlet with a wall switch. Then you can easily switch the whole system off when you need to. But remember if you are planning to record a show, your cable box will need to be turned on. It also takes time for your program guide to load, so it may be best to only shut your cable box off if you are not going to use it for extended periods.

If you're still concerned about the energy usage of your home set-top boxes, be aware that, in December 2013, industry, environmental, and consumer groups reached a **non-regulatory agreement** that is expected to improve the efficiency of new set-top boxes by 10 to 45 percent (depending on box type) by 2017. So, if you want to save energy and money, consider calling your cable provider about these new, more efficient set-top boxes.



IN THE HOME OFFICE

You may have finished working, but your laptops and PCs in the home office are contributing to your electric bill. Be sure to keep your computers on sleep mode if not in use. Of course, a desktop or laptop computer can still suck 15-21 watts when idle. Turn it off instead and that could be up to \$20 in savings from one device alone. Inkjet printers and fax machines, as well as other computers, can easily add to these costs, so be sure to use power strips and flip them off when not in use.



IN THE BEDROOM

Space heaters are a great way to keep a basement bedroom warm. Unfortunately, they're also a great way to start a house fire and drive up energy bills. If some rooms are colder in your house, consider fixing leaks and or adding insulation instead of using pricey space heaters. You can find ways to fix leaks in your home with a simple home energy audit. Read more tips on heating and cooling in our blog on Saving on Home Heating Costs.

As always, be sure to consider purchasing ENERGY STAR-rated appliances as they can save you more money up front and for years into the future. Check for the ENERGY STAR logo on all products. Also, be sure to look for **rebates on these appliances**.





253 Pascoag Main Street P.O. Box 107 Pascoag, RI 02859 Phone: 401-568-6222

Fax: 401-568-0066 www.pud-ri.org

Are you a Pascoag Utility District electric customer?

Do you know you could be getting a rebate for the Energy Star products you buy?

It's easy! Fill out an Energy Star rebate form by picking one up at the office or downloading it from our website. Mail or drop off the form with proof of purchase and proof of the Energy Star label. The rebate then gets credited to your electric account.

We offer rebates on the following Energy Star rated products:

- Pool Pumps
- Appliances
- Central Air
- Commercial Appliances
- Commercial Office Equipment
- Electric Heat Pump Hot Water Heaters and Solar Water Heaters used in combination with an Electric Tank Water Heater
- · Heating System or Burner Replacement
- Home Office Equipment and Electronics
- Light Bulbs
- Lighting Fixtures, Ceiling and Ventilation Fans
- Geothermal Heat Pumps or Ground Source Heat Pumps
- New Construction
- Smart Power Strips
- · Windows and Doors

We also provide:

- Free home and business energy audits with rebates available for follow up audit measures.
- · Rebates when you get rid of an old running refrigerator or freezer.

For more information on how to qualify for an Energy Star rebate, please visit us on the web at:

http://www.pud-ri.org/conservation/download-rebate-forms

This offer is for a limited time only, subject to availability of funding.

Energy Star Products Help You Save

Do you know you could be getting a rebate for the Energy Star products you buy?

It's easy! Fill out an Energy Star rebate form by picking one up at the office or downloading it from our website. Mail or drop off the form with proof of purchase and proof of the Energy Star label. The rebate then gets credited to your electric account.

We offer rebates on the following Energy Star rated products:

- Pool Pumps
- Appliances
- Central Air
- Commercial Appliances
- Commercial Office Equipment
- Electric Heat Pump Hot Water Heaters and Solar Water Heaters used in combination with an Electric Tank Water Heater
- Heating System or Burner Replacement
- Home Office Equipment and Electronics
- Light Bulbs
- · Lighting Fixtures, Ceiling and Ventilation Fans
- Geothermal Heat Pumps or Ground Source Heat Pumps
- New Construction
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RIPUC DOCKET 4663

Schedule J- 2016 Lighting Project Information

RIPUC DOCKET 4663

Pascoag Utility District Office Lighting Project

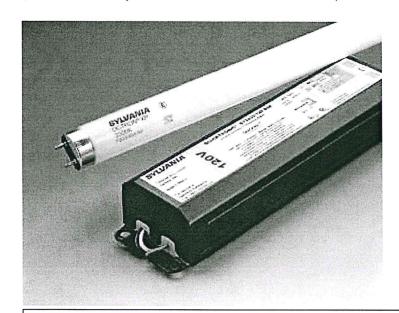
Existing

Run time 8x5x52

2080 hrs

Return to search

Print Page



Product

21999

Number: Order

FO32/741/ECO

Abbreviation: General

Description:

32W, 48" MOL, T8 OCTRON fluorescent lamp, 4100K color

temperature, rare earth phosphor, 75 CRI, suitable for IS or RS

operation, ECOLOGIC

Product Information

Abbrev. With Packaging Info. FO32741ECO 30/CS 1/SKU

Actual Length (in) 47.78 Actual Length (mm) 1213.6 Average Rated Life (hr) 25000

Base Medium Bipin

Bulb T8 Color Rendering Index (CRI) 78 Color Temperature/CCT (K) 4100 Diameter (in) 1.10 Diameter (mm) 27.9

Family Brand Name Octron® 700, Ecologic Industry Standards ANSI C78.81 - 2001

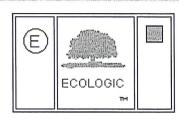
Initial Lumens at 25C 2800 Mean Lumens at 25C 2520 Nominal Length (in) 48 Nominal Wattage (W) 32.00

Additional Product Information

Product Documents, Graphs, and Images

Compatible Ballast

Packaging Information



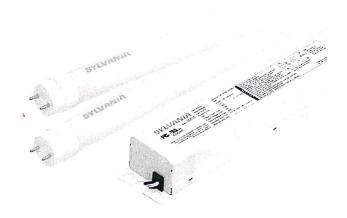
Footnotes

- The life rating of FO32/700/ECO OCTRON® lamps operated on rapid start ballasts is 25,000 hours. The life rating of FO32/700/ECO OCTRON lamps operated on instant start ballasts is 24,000 hours.
- Approximate initial lumens after 100 hours operation.
- The life ratings of fluorescent lamps are based on 3 hr. burning cycles under specified conditions and with ballast meeting ANSI specifications. If burning cycle is increased, there will be a corresponding increase in the average hours life.
- Minimum starting temperature is a function of the ballast; consult the ballast manufacturer.
- OCTRON lamps should be operated only with magnetic rapid start ballasts designed to operate 265 mA, T-8 lamps or high frequency (electronic) ballasts that are either instant start, or rapid start, or programmed rapid start specifically designed to operate T8 lamps. OCTRON lamps may be operated on instant start ballasts with ballast factors ranging from a minimum of 0.71 to a maximum of 1.20 at the nominal ballast input voltage. When OCTRON lamps are operated in the instant start mode, the two wires or two contacts of each socket should be connected to each other. They should then be connected to the appropriate ballast lead wire using National Electric Code techniques.
- SYLVANIA ECOLOGIC fluorescent lamps are designed to pass the Federal Toxic
 Characteristic Leaching Procedure (TCLP) criteria for classification as non-hazardous
 waste in most states. TCLP test results are available upon request. Lamp disposal
 regulations may vary, check your local & state regulations. For more information, please
 visit www.lamprecycle.org

Print Page

ULTRA HE LED T8 Retrofit Kits





The SYLVANIA ULTRA HE LED T8 retrofit kits are an energy saving and longer-life alternative to replace traditional fluorescent T12 or T8 lamps. Compared to traditional fluorescent lamps, ULTRA HE LEDT8 lamps offer higher efficacy and equivalent light output.

Lamp requires dedicated external driver and non-shunted G13 medium bi-pin lamp holders which are included in the retrofit kit.

For retrofit application, lamps and drivers are offered together as 1-lamp, 2-lamp, 3-lamp and 4-lamp retrofit kits.

Key Features & Benefits

- Lumen package:
 - Up to 1150 lumens @ 10W
 - Up to 2450 lumens @ 19W
 - Up to 2450 lumens @ 22W
- CCT: 3000K, 3500K, 4100K, 5000K
- Beam angle: 150°
- Universal input 120-277V; 50/60Hz (external driver) & 347V; 50/60Hz (external driver)
- THD <20%, power factor >0.90
- G13 medium bi-pin base
- Long life: 60,000 hour life (L₇₀)
- Installation of the retrofit kit does not void the existing luminaire UL listing

- 8 year warranty (12 hour burn cycle),
 7 year warranty (16 hour burn cycle),
 5 year warranty (24 hour burn cycle)
- Reduces energy consumption up to 35%
- No warm-up time, instant-on with full light output and stable lamp to lamp color
- Glass free, vibration and impact resistant
- No UV emission
- Suitable for dry and damp locations (cannot come in direct contact with water)
- DesignLights Consortium® (DLC) qualified

Product Offering

	Lumen		Color	
Length	Output	Wattage	Temperature	CRI
24in.	Up to 1150	10	3000K, 3500K, 4100K, 5000K	>82
48in.	Up to 2450	19	3000K, 3500K, 4100K, 5000K	>82
48in.	Up to 2450	22	3500K, 4100K, 5000K	>82
48in.	Up to 2450	22	3500K, 4100K, 5000K	

Application Information

Applications

- Cooler/freezer case
- Cove lighting
- Display case
- General illumination
- High bay
- Parking garage
- Tunnels

Application Notes

- 1. The ULTRA HE T8 LED lamp is designed to use a dedicated external driver and G13 medium bi-pin non-shunted lamp holders.
- 2. Operating temperature range between -4°F and 122°F (-20°C and 50°C).
- 3. Suitable for use in dry and damp environments.
- 4. The ULTRA HE 1-lamp kit is compatible with the Bodine emergency inverter model ELI-S-20 and the 2-lamp, 3-lamp and 4-lamp kits are compatible with the Bodine model ELI-S-100.
- 5. Maximum mounting distance between tube and driver is 10 feet.
- 6. For detailed warranty information, please see www.sylvania.com
- NSF certified Food Zone (Non-Contact), Splash Zone and Non-Food Zone.

Specifications and Certifications



















Specification Data

Catalog #	Туре
Project	And the second s
Comments	
Prepared by	

Specifications

Energy Data

Ambient Operating Temperature: -4°F to 122°F (-20°C to 50°C)

EMI/RFI: FCC Title 47 CFR, Part 15, Class B

Input Voltage: 120-277V Input Frequency: 50/60Hz

Input Power: 10W (2ft), 19W (4ft) & 22W (4ft)
Input Current @ 120Vac: 0.09A (2ft) & 0.18A (4ft)
Input Current @ 277Vac: 0.04A (2ft) & 0.08A (4ft)

Power Factor: >0.90

THD: <20%

Lighting Data

Lumen Output: Up to 1150lm (2ft) & 2450lm (4ft)

Lumens per Watt: Up to 129

Correlated Color Temperature (CCT): 3000K, 3500K, 4100K, 5000K

Color Rendering Index (CRI): >82

R9: Up to 21

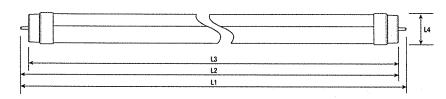
Ordering Information

Table Tabl	Item Number	Ordering Abbreviation	Input Voltage (V)	Length (in.)	Lamp Power (W)	System Power (W)	Lumens per Lamp	LPW	Color Temp.	CRI	Beam Angle	No. of Lamps	No. of Drivers	No. of Lamp Holders	DLC (Y/N)
10	73113*	LED10T8/L24/F/1x2HE/830/UNV	120-277	24	10	20	1100	110	3000K	82	150	2	1 Non-Dimmable Driver	4	Y
1301 LEDI0TBA_L24F/Tx2HE/B50/UNV 120-277 24 10 20 1150 115 5000K 83 150 2 1 Non-Dirmable Driver 4 Y 73119* LEDI9TBA_L84F/Tx2HE/B530/UNV 120-277 48 19 38 2350 124 3000K 82 150 2 1 Non-Dirmable Driver 4 Y 73106 LEDI9TBA_L84F/Tx2HE/B530/UNV 120-277 48 19 38 2350 124 3500K 83 150 2 1 Non-Dirmable Driver 4 Y 73107 LEDI9TBA_L84F/Tx2HE/B530/UNV 120-277 48 19 38 2350 124 4100K 85 150 2 1 Non-Dirmable Driver 4 Y 73108 LEDI9TBA_L84F/Tx2HE/B50/UNV 120-277 24 10 10 1100 110 3000K 82 150 2 1 Non-Dirmable Driver 4 Y 73112* LEDIOTBA_L24F/Tx1HE/B530/UNV 120-277 24 10 10 1100 110 3500K 83 150 2 1 Non-Dirmable Driver 2 Y 7309F LEDIOTBA_L24F/Tx1HE/B530/UNV 120-277 24 10 10 1100 110 3500K 83 150 1 1 Non-Dirmable Driver 2 Y 7309F LEDIOTBA_L24F/Tx1HE/B530/UNV 120-277 24 10 10 1100 110 3500K 83 150 1 1 Non-Dirmable Driver 2 Y 7309F LEDIOTBA_L24F/Tx1HE/B530/UNV 120-277 24 10 10 1150 115 5000K 83 150 1 1 Non-Dirmable Driver 2 Y 73118 LEDI9TBA_L84F/Tx1HE/B530/UNV 120-277 24 10 10 1150 115 5000K 83 150 1 1 Non-Dirmable Driver 2 Y 73118 LEDI9TBA_L84F/Tx1HE/B350/UNV 120-277 24 10 10 1150 115 5000K 83 150 1 1 Non-Dirmable Driver 2 Y 73118 LEDI9TBA_L84F/Tx1HE/B350/UNV 120-277 24 10 30 1100 110 3500K 83 150 1 1 Non-Dirmable Driver 2 Y 73114* LEDI9TBA_L84F/Tx1HE/B350/UNV 120-277 24 10 30 1100 110 3500K 83 150 1 Non-Dirmable Driver 2 Y 73114* LEDI9TBA_L84F/Tx1HE/B350/UNV 120-277 24 10 30 1100 110 3500K 83 150 1 Non-Dirmable Driver 2 Y 73114* LEDI0TBA_L84F/Tx1HE/B350/UNV 120-277 24 10 30 1100 110 3500K 83 150 1 Non-Dirmable Driver 4 Y 73114* LEDI0TBA_L84F/Tx1HE/B350/UNV 120-277 24 10 30 110		LED10T8/L24/F/1x2HE/835/UNV	120-277	24	10	20	1100	110	3500K	83	150	2	1 Non-Dimmable Driver	4	Y
1310 LED19TB/L48/F/1x2HE/835/UNV 120-277 48 19 38 2350 124 3000K 82 150 2 1 Non-Dimmable Driver 4 Y 73106 LED19TB/L48/F/1x2HE/835/UNV 120-277 48 19 38 2350 124 3500K 83 150 2 1 Non-Dimmable Driver 4 Y 73107 LED19TB/L48/F/1x2HE/835/UNV 120-277 48 19 38 2350 124 3500K 83 150 2 1 Non-Dimmable Driver 4 Y 73107 LED19TB/L48/F/1x2HE/835/UNV 120-277 48 19 38 2450 129 5000K 83 150 2 1 Non-Dimmable Driver 4 Y 73108 LED19TB/L48/F/1x2HE/835/UNV 120-277 24 10 10 1100 110 3500K 82 150 1 1 Non-Dimmable Driver 4 Y 73096 LED19TB/L48/F/1x1HE/835/UNV 120-277 24 10 10 1100 110 3500K 83 150 1 1 Non-Dimmable Driver 2 Y 73096 LED19TB/L48/F/1x1HE/835/UNV 120-277 24 10 10 1100 110 3500K 83 150 1 1 Non-Dimmable Driver 2 Y 73098 LED10TB/L24/F/1x1HE/835/UNV 120-277 24 10 10 1150 1150 1150 5000K 83 150 1 1 Non-Dimmable Driver 2 Y 73098 LED19TB/L48/F/1x1HE/835/UNV 120-277 24 10 10 1150 1150 1150 5000K 83 150 1 Non-Dimmable Driver 2 Y 73103 LED19TB/L48/F/1x1HE/835/UNV 120-277 48 19 19 2350 124 3500K 83 150 1 Non-Dimmable Driver 2 Y 73103 LED19TB/L48/F/1x1HE/835/UNV 120-277 48 19 19 2350 124 3500K 83 150 1 Non-Dimmable Driver 2 Y 73103 LED19TB/L48/F/1x1HE/835/UNV 120-277 48 19 19 2350 124 3500K 83 150 1 Non-Dimmable Driver 2 Y 73103 LED19TB/L48/F/1x3HE/835/UNV 120-277 48 19 19 2450 129 5000K 83 150 1 Non-Dimmable Driver 2 Y 73103 LED19TB/L48/F/1x3HE/835/UNV 120-277 48 19 19 2450 129 5000K 83 150 1 Non-Dimmable Driver 2 Y 73103 LED19TB/L48/F/1x3HE/835/UNV 120-277 48 19 19 2450 129 5000K 83 150 1 Non-Dimmable Driver 4 Y 73114 LED10TB/L24/F/1x3HE/85/UNV 120-277 48 19 19 2450 120 120			120-277	24	10	20	1100	110	4100K	85	150	2	1 Non-Dimmable Driver	4	Υ
Table							1150		5000K		150	2	1 Non-Dimmable Driver	4	Υ
Table Tabl		LED19T8/L48/F/1x2HE/830/UNV	120-277	48	19	38	2350	124	3000K	82	150	2	1 Non-Dimmable Driver	4	Υ
Table LED19TB/L48/F/Tx2HE/83D/UNV 120-277 48 19 38 2450 129 5000K 83 150 2 1 Non-Dimmable Driver 2 Y Table Table			120-277			38	2350	124	3500K	83	150	2	1 Non-Dimmable Driver	4	Y
Table Tabl			120-277	48		38	2350	124	4100K	85	150	2	1 Non-Dimmable Driver	4	Υ
Table Tabl			120-277			38	2450	129	5000K	83	150	2	1 Non-Dimmable Driver	4	Υ
Table Tabl			120-277			10	1100	110	3000K	82	150	1	1 Non-Dimmable Driver	2	Y
Table Tabl			120-277		10	10	1100	110	3500K	83	150	1	1 Non-Dimmable Driver	2	Υ
Table LeD19T8/L48/F/1x1HE/830/UNV 120-277 48 19 19 2350 124 3000K 82 150 1 1 Non-Dimmable Driver 2 Y			120-277		10	10	1100	110	4100K	85	150	1	1 Non-Dimmable Driver	2	Υ
Table LeD19T8/L48/F/1x1HE/835/UNV 120-277 48 19 19 2350 124 3500K 83 150 1 1 Non-Dimmable Driver 2 Y	~		120-277	24	10	10	1150	115	5000K	83	150	1	1 Non-Dimmable Driver	2	Y
Table Tabl						19	2350	124	3000K	82	150	1	1 Non-Dimmable Driver	2	Y
Table Tabl			120-277			19	2350	124	3500K	83	150	1	1 Non-Dimmable Driver	2	Y
Table LeD10T8/L24/F/1x3HE/830/UNV 120-277 24 10 30 1100 110 3000K 82 150 3 1 Non-Dimmable Driver 6 Y			120-277				2350	124	4100K	85	150	1	1 Non-Dimmable Driver	2	Y
Table Tabl						19	2450	129	5000K	83	150	1	1 Non-Dimmable Driver	2	Y
73116 LED10T8/L24/F/1x3HE/841/UNV 120-277 24 10 30 1100 110 4100K 85 150 3 1 Non-Dimmable Driver 6 Y 73117* LED10T8/L24/F/1x3HE/850/UNV 120-277 24 10 30 1100 110 5000K 83 150 3 1 Non-Dimmable Driver 6 Y 73142 LED22T8/L48/F/DIM1x2HE/835/UNV 120-277 48 22 44 2350 107 3500K 83 150 2 1 (0-10V) Dimmable Driver 4 N 73143 LED22T8/L48/F/DIM1x2HE/841/UNV 120-277 48 22 44 2350 107 4100K 85 150 2 1 (0-10V) Dimmable Driver 4 N 73144 LED22T8/L48/F/DIM1x2HE/850/UNV 120-277 48 22 44 2450 111 5000K 83 150 2 1 (0-10V) Dimmable Driver 4 N 73122* LED19T8/L48/F/1x2HE/835/347V 347 48 19 38 2150 113 3500K 90 150 2 1 Non-Dimmable Driver 4 Y 73124* LED19T8/L48/F/1x2HE/841/347V 347 48 19 38 2150 113 4100K 88 150 2 1 Non-Dimmable Driver 4 Y 73124* LED19T8/L48/F/1x2HE/850/347V 347 48 19 38 2150 113 5000K 88 150 2 1 Non-Dimmable Driver 4 Y 73369* LED19T8/L48/F/1x3HE/830/UNV 120-277 48 19 58 2350 122 3000K 82 150 3 1 Non-Dimmable Driver 6 Y 73370 LED19T8/L48/F/1x3HE/835/UNV 120-277 48 19 58 2350 122 3500K 83 150 3 1 Non-Dimmable Driver 6 Y 73371 LED19T8/L48/F/1x3HE/835/UNV 120-277 48 19 58 2350 122 3500K 83 150 3 1 Non-Dimmable Driver 6 Y 73372 LED19T8/L48/F/1x3HE/835/UNV 120-277 48 19 58 2350 122 3500K 83 150 3 1 Non-Dimmable Driver 6 Y 73372 LED19T8/L48/F/1x3HE/835/UNV 120-277 48 19 58 2350 122 3500K 83 150 3 1 Non-Dimmable Driver 6 Y 73373 LED19T8/L48/F/1x3HE/841/UNV 120-277 48 19 58 2350 122 3500K 83 150 3 1 Non-Dimmable Driver 6 Y 73374 LED19T8/L48/F/1x3HE/835/UNV 120-277 48 19 58 2350 122 3500K 83 150 3 1 Non-Dimmable Driver 6 Y 73375 LED19T8/L48/F/1x3HE/835/UNV 120-277 48 19 58 2350 121 3000K 82 150 4 1 Non-Dimmable Driver 6 Y 73366 LED19T8/L48/F/1x4HE/835/UNV 120-277 48 19 78 2350 121 3500K 83 150 4 1 Non-Dimmable Driver 8 Y 73366 LED19T8/L48/F/1x4HE/835/UNV 120-277 48 19 78 2350 121 3500K 83 150 4 1 Non-Dimmable Driver 8 Y	***************************************	LED10T8/L24/F/1x3HE/830/UNV	120-277	24	10	30	1100	110	3000K	82	150	3	1 Non-Dimmable Driver	6	Y
Table Tabl			120-277		10	30	1100	110	3500K	83	150	3	1 Non-Dimmable Driver	6	Y
Table Tabl		LED10T8/L24/F/1x3HE/841/UNV	120-277	24	10	30	1100	110	4100K	85	150	3	1 Non-Dimmable Driver	6	Y
73143 LED22T8/L48/F/DIM1x2HE/841/UNV 120-277 48 22 44 2350 107 4100K 85 150 2 1 (0-10V) Dimmable Driver 4 N 73144 LED22T8/L48/F/DIM1x2HE/850/UNV 120-277 48 22 44 2450 111 5000K 83 150 2 1 (0-10V) Dimmable Driver 4 N 73122* LED19T8/L48/F/1x2HE/835/347V 347 48 19 38 2150 113 3500K 90 150 2 1 Non-Dimmable Driver 4 Y 73123* LED19T8/L48/F/1x2HE/850/347V 347 48 19 38 2150 113 4100K 88 150 2 1 Non-Dimmable Driver 4 Y 73124* LED19T8/L48/F/1x2HE/850/347V 347 48 19 38 2150 113 5000K 88 150 2 1 Non-Dimmable Driver 4 Y 73369* LED19T8/L48/F/1x3HE/830/UNV 120-277 48 19 58 2350 122 3000K 82 150 3 1 Non-Dimmable Driver 6 Y 73370 LED19T8/L48/F/1x3HE/835/UNV 120-277 48 19 58 2350 122 3500K 83 150 3 1 Non-Dimmable Driver 6 Y 73372 LED19T8/L48/F/1x3HE/841/UNV 120-277 48 19 58 2350 122 4100K 85 150 3 1 Non-Dimmable Driver 6 Y 73372 LED19T8/L48/F/1x3HE/850/UNV 120-277 48 19 58 2350 122 4100K 85 150 3 1 Non-Dimmable Driver 6 Y 73372 LED19T8/L48/F/1x3HE/850/UNV 120-277 48 19 58 2350 122 4100K 85 150 3 1 Non-Dimmable Driver 6 Y 73365* LED19T8/L48/F/1x3HE/835/UNV 120-277 48 19 78 2350 121 3000K 82 150 4 1 Non-Dimmable Driver 8 Y 73366 LED19T8/L48/F/1x4HE/835/UNV 120-277 48 19 78 2350 121 3500K 83 150 4 1 Non-Dimmable Driver 8 Y 73367 LED19T8/L48/F/1x4HE/835/UNV 120-277 48 19 78 2350 121 3500K 83 150 4 1 Non-Dimmable Driver 8 Y		LED10T8/L24/F/1x3HE/850/UNV	120-277	24		30	1100	110	5000K	83	150	3	1 Non-Dimmable Driver	6	Y
Table Tabl	73142	LED22T8/L48/F/DIM1x2HE/835/UNV	120-277	48	22	44	2350	107	3500K	83	150	2	1 (0-10V) Dimmable Driver	4	N
73122* LED19T8/L48/F/1x2HE/835/347V 347 48 19 38 2150 113 3500K 90 150 2 1 Non-Dimmable Driver 4 Y 73123* LED19T8/L48/F/1x2HE/841/347V 347 48 19 38 2150 113 4100K 88 150 2 1 Non-Dimmable Driver 4 Y 73124* LED19T8/L48/F/1x2HE/850/347V 347 48 19 38 2150 113 5000K 88 150 2 1 Non-Dimmable Driver 4 Y 73369* LED19T8/L48/F/1x3HE/830/UNV 120-277 48 19 58 2350 122 3000K 82 150 3 1 Non-Dimmable Driver 6 Y 73370 LED19T8/L48/F/1x3HE/835/UNV 120-277 48 19 58 2350 122 3500K 83 150 3 1 Non-Dimmable Driver 6 Y 73371 LED19T8/L48/F/1x3HE/841/UNV 120-277 48 19 58 2350 122 4100K 85 150 3 1 Non-Dimmable Driver 6 Y 73372 LED19T8/L48/F/1x3HE/850/UNV 120-277 48 19 58 2350 122 4100K 85 150 3 1 Non-Dimmable Driver 6 Y 73365* LED19T8/L48/F/1x4HE/830/UNV 120-277 48 19 78 2350 121 3000K 82 150 4 1 Non-Dimmable Driver 6 Y 73366 LED19T8/L48/F/1x4HE/830/UNV 120-277 48 19 78 2350 121 3500K 83 150 4 1 Non-Dimmable Driver 8 Y 73367 LED19T8/L48/F/1x4HE/835/UNV 120-277 48 19 78 2350 121 3500K 83 150 4 1 Non-Dimmable Driver 8 Y 73367 LED19T8/L48/F/1x4HE/841/UNV 120-277 48 19 78 2350 121 3500K 83 150 4 1 Non-Dimmable Driver 8 Y		LED22T8/L48/F/DIM1x2HE/841/UNV	120-277	48	22	44	2350	107	4100K	85	150	2	1 (0-10V) Dimmable Driver	4	N
73123* LED19T8/L48/F/1x2HE/841/347V 347 48 19 38 2150 113 4100K 88 150 2 1 Non-Dimmable Driver 4 Y 73124* LED19T8/L48/F/1x2HE/850/347V 347 48 19 38 2150 113 5000K 88 150 2 1 Non-Dimmable Driver 4 Y 73369* LED19T8/L48/F/1x3HE/830/UNV 120-277 48 19 58 2350 122 3000K 82 150 3 1 Non-Dimmable Driver 6 Y 73370 LED19T8/L48/F/1x3HE/835/UNV 120-277 48 19 58 2350 122 3500K 83 150 3 1 Non-Dimmable Driver 6 Y 73371 LED19T8/L48/F/1x3HE/841/UNV 120-277 48 19 58 2350 122 4100K 85 150 3 1 Non-Dimmable Driver 6 Y 73372 LED19T8/L48/F/1x3HE/850/UNV 120-277 48 19 58 2450 127 5000K 83 150 3 1 Non-Dimmable Driver 6 Y 73365* LED19T8/L48/F/1x3HE/830/UNV 120-277 48 19 78 2350 121 3000K 82 150 4 1 Non-Dimmable Driver 8 Y 73366 LED19T8/L48/F/1x4HE/835/UNV 120-277 48 19 78 2350 121 3500K 83 150 4 1 Non-Dimmable Driver 8 Y 73367 LED19T8/L48/F/1x4HE/835/UNV 120-277 48 19 78 2350 121 3500K 83 150 4 1 Non-Dimmable Driver 8 Y			120-277	48	22	44	2450	111	5000K	83	150	2	1 (0-10V) Dimmable Driver	4	N
73124* LED19T8/L48/F/1x2HE/850/347V 347 48 19 38 2150 113 5000K 88 150 2 1 Non-Dimmable Driver 4 Y 73369* LED19T8/L48/F/1x3HE/830/UNV 120-277 48 19 58 2350 122 3000K 82 150 3 1 Non-Dimmable Driver 6 Y 73370 LED19T8/L48/F/1x3HE/835/UNV 120-277 48 19 58 2350 122 3500K 83 150 3 1 Non-Dimmable Driver 6 Y 73371 LED19T8/L48/F/1x3HE/841/UNV 120-277 48 19 58 2350 122 4100K 85 150 3 1 Non-Dimmable Driver 6 Y 73372 LED19T8/L48/F/1x3HE/850/UNV 120-277 48 19 58 2450 127 5000K 83 150 3 1 Non-Dimmable Driver 6 Y 73365* LED19T8/L48/F/1x4HE/830/UNV 120-277 48 19 78 2350 121 3000K 82 150 4 1 Non-Dimmable Driver 8 Y 73366 LED19T8/L48/F/1x4HE/835/UNV 120-277 48 19 78 2350 121 3500K 83 150 4 1 Non-Dimmable Driver 8 Y 73367 LED19T8/L48/F/1x4HE/835/UNV 120-277 48 19 78 2350 121 3500K 83 150 4 1 Non-Dimmable Driver 8 Y 73367 LED19T8/L48/F/1x4HE/841/UNV 120-277 48 19 78 2350 121 4100K 85 150 4 1 Non-Dimmable Driver 8 Y	73122*	LED19T8/L48/F/1x2HE/835/347V	347	48	19	38	2150	113	3500K	90	150	2	1 Non-Dimmable Driver	4	Υ
73369* LED19T8/L48/F/1x3HE/830/UNV 120-277 48 19 58 2350 122 3000K 82 150 3 1 Non-Dimmable Driver 6 Y 73370 LED19T8/L48/F/1x3HE/835/UNV 120-277 48 19 58 2350 122 3500K 83 150 3 1 Non-Dimmable Driver 6 Y 73371 LED19T8/L48/F/1x3HE/841/UNV 120-277 48 19 58 2350 122 4100K 85 150 3 1 Non-Dimmable Driver 6 Y 73372 LED19T8/L48/F/1x3HE/850/UNV 120-277 48 19 58 2450 127 5000K 83 150 3 1 Non-Dimmable Driver 6 Y 73365* LED19T8/L48/F/1x4HE/830/UNV 120-277 48 19 78 2350 121 3000K 82 150 4 1 Non-Dimmable Driver 8 Y 73366 LED19T8/L48/F/1x4HE/835/UNV 120-277 48 19 78			347	48	19	38	2150	113	4100K	88	150	2	1 Non-Dimmable Driver	4	Y
73370 LED19T8/L48/F/1x3HE/835/UNV 120-277 48 19 58 2350 122 3500K 83 150 3 1 Non-Dimmable Driver 6 Y 73371 LED19T8/L48/F/1x3HE/841/UNV 120-277 48 19 58 2350 122 4100K 85 150 3 1 Non-Dimmable Driver 6 Y 73372 LED19T8/L48/F/1x3HE/850/UNV 120-277 48 19 58 2450 127 5000K 83 150 3 1 Non-Dimmable Driver 6 Y 73365* LED19T8/L48/F/1x4HE/830/UNV 120-277 48 19 78 2350 121 3000K 82 150 4 1 Non-Dimmable Driver 8 Y 73366 LED19T8/L48/F/1x4HE/835/UNV 120-277 48 19 78 2350 121 3500K 83 150 4 1 Non-Dimmable Driver 8 Y 73367 LED19T8/L48/F/1x4HE/841/UNV 120-277 48 19 78 2350 121 4100K 85 150 4 1 Non-Dimmable Driver 8 Y	***		347				2150	113	5000K	88	150	2	1 Non-Dimmable Driver	4	Y
73371 LED19T8/L48/F/1x3HE/841/UNV 120-277 48 19 58 2350 122 4100K 85 150 3 1 Non-Dimmable Driver 6 Y 73372 LED19T8/L48/F/1x3HE/850/UNV 120-277 48 19 58 2450 127 5000K 83 150 3 1 Non-Dimmable Driver 6 Y 73365* LED19T8/L48/F/1x4HE/830/UNV 120-277 48 19 78 2350 121 3000K 82 150 4 1 Non-Dimmable Driver 8 Y 73366 LED19T8/L48/F/1x4HE/835/UNV 120-277 48 19 78 2350 121 3500K 83 150 4 1 Non-Dimmable Driver 8 Y 73367 LED19T8/L48/F/1x4HE/841/UNV 120-277 48 19 78 2350 121 4100K 85 150 4 1 Non-Dimmable Driver 8 Y		LED19T8/L48/F/1x3HE/830/UNV	120-277	48	19	58	2350	122	3000K	82	150	3	1 Non-Dimmable Driver	6	Y
73372 LED19T8/L48/F/1x3HE/850/UNV 120-277 48 19 58 2450 127 5000K 83 150 3 1 Non-Dimmable Driver 6 Y 73365* LED19T8/L48/F/1x4HE/830/UNV 120-277 48 19 78 2350 121 3000K 82 150 4 1 Non-Dimmable Driver 8 Y 73366 LED19T8/L48/F/1x4HE/835/UNV 120-277 48 19 78 2350 121 3500K 83 150 4 1 Non-Dimmable Driver 8 Y 73367 LED19T8/L48/F/1x4HE/841/UNV 120-277 48 19 78 2350 121 4100K 85 150 4 1 Non-Dimmable Driver 8 Y			120-277	48		58	2350	122	3500K	83	150	3	1 Non-Dimmable Driver	6	Υ
73365* LED19T8/L48/F/1x4HE/830/UNV 120-277 48 19 78 2350 121 3000K 82 150 4 1 Non-Dimmable Driver 8 Y 73366 LED19T8/L48/F/1x4HE/835/UNV 120-277 48 19 78 2350 121 3500K 83 150 4 1 Non-Dimmable Driver 8 Y 73367 LED19T8/L48/F/1x4HE/841/UNV 120-277 48 19 78 2350 121 4100K 85 150 4 1 Non-Dimmable Driver 8 Y			120-277	48	19	58	2350	122	4100K	85	150	3	1 Non-Dimmable Driver	6	Υ
73366 LED19T8/L48/F/1x4HE/835/UNV 120-277 48 19 78 2350 121 3500K 83 150 4 1 Non-Dimmable Driver 8 Y 73367 LED19T8/L48/F/1x4HE/841/UNV 120-277 48 19 78 2350 121 4100K 85 150 4 1 Non-Dimmable Driver 8 Y		LED19T8/L48/F/1x3HE/850/UNV	120-277	48	19	58	2450	127	5000K	83	150	3		6	Υ
73367 LED19T8/L48/F/1x4HE/841/UNV 120-277 48 19 78 2350 121 4100K 85 150 4 1 Non-Dimmable Driver 8 Y			120-277	48	19	78	2350	121	3000K	82	150	4	1 Non-Dimmable Driver	8	Y
The boundary of the second of	73366		120-277	48	19	78	2350	121	3500K	83	150	4	1 Non-Dimmable Driver	8	Y
73368 LED19T8/L48/F/1x4HE/850/UNV 120-277 48 19 78 2450 126 5000K 83 150 4 1 Non-Dimmable Driver 8 Y		LED19T8/L48/F/1x4HE/841/UNV	120-277	48	19	78	2350	121	4100K	85	150	4	1 Non-Dimmable Driver	8	Y
	73368	LED19T8/L48/F/1x4HE/850/UNV	120-277	48	19	78	2450	126	5000K	83	150	4	1 Non-Dimmable Driver	8	Y

Products are being discontinued. Please contact your SYLVANIA sales representative for availability.

Orde	ring Guid	e														
LED	10	T8 /	L	24	1	F	1	1	X	2	HE	1	8	35	1	UNV
LED	Wattage	Lamp Type	Length	24 Inches Overall Lengt	h	Frosted Lens		1 Driver/ Kit		2 Lamps/ Kit	High Efficiency	y	CRI 83	Color Tempera 35 = 35		Universal Voltage

Assembly Diagram



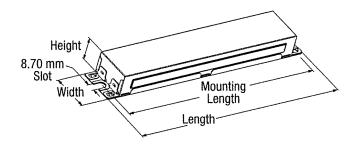
Product Description	End of Base Pin to End of Opposite Pin End	Base Face to End of Opposite Base Pin	Base Face to Base Face	L4 Bulb Outside Diameter
LED10T8L24 (2ft)	23.725" ± 0.055" (602.6mm ± 1.4mm)	23.45" ± 0.05" (595.65mm ± 1.25mm)	max 23.22" (589.8mm)	1.02" ± 0.08" (25.9mm ± 2.0mm)
LED19T8L48 (4ft)	47.725" ± 0.055" (1212.2mm ± 1.4mm)	47.45" ± 0.05" (1205.25mm ± 1.25mm)	max 47.22" (1199.4mm)	1.02" ± 0.08" (25.9mm ± 2.0mm)
LED22T8L48 (4ft)	47.725" ± 0.055" (1212.2mm ± 1.4mm)	47.45" ± 0.05" (1205.25mm ± 1.25mm)	max 47.22" (1199.4mm)	1.02" ± 0.08" (25.9mm ± 2.0mm)

Dimensions:

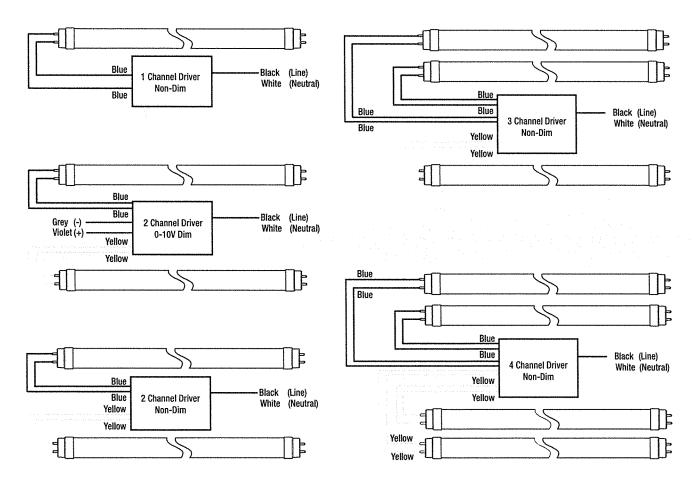
Overall: 9.4" L x 1.8" W x 1.2" H Mounting: 8,90"

Wiring:

Input lead length 29.5" (750mm), 18 AWG Output lead length 11.0" (280mm), 20 AWG



Wiring Diagram



Note:

- Driver output is polarity neutral.
 Electrical connection can be made through either end of the lamp.
 For 1 lamp operation, cap off unused leads.

Illuminance at a Distance

Center Beam Illuminance Beam Width Along II Across 1 10.4 fc 17.1 ft 106.6 ft 6.5 ft 34.4 ft 2.6 fc 212.9 ft 13 ft 1.1 fc 51.5 ft 319.6 ft 20 ft

Polar Chart 451 271 180 90°

Maximum Intensity: 451 cd
Across L
Along II

Total Lumen Distribution

Zone	Lumens	% Lamp
0-30	352	17
0-40	583	28
0-60	1082	53
0-90	1647	80
60-90	565	27
0-80	2062	100

Photometric information for LED19T8L48/F/1x1HE/830/UNV; 1 lamp operation

Warranty

ULTRA HE LED T8 Retrofit Kits are covered by the LED T8 System Limited Warranty, a comprehensive system warranty. For additional details, please visit www.sylvania.com/warranty

OSRAM SYLVANIA Inc. 200 Ballardvale Street Wilmington, MA 01887 USA Phone 1-800-LIGHTBULB (1-800-544-4828) www.sylvania.com

OSRAM and SYLVANIA are registered trademarks. All other trademarks are those of their respective owners. Specifications subject to change without notice.









Branch Serving You: NORTHEAST ELECTRICAL DISTRIBUTORS 895 CUMBERLAND HILL RD WOONSOCKET RI 02895-5611 401-762-3871 Fax 401-765-6239 INVOICE

S025752857.001 06/16/16

Page 1 of 1



SOLD TO:

836 1 AT 0.399 E0131X I0240 D1770094665 S2 P3334367 0001:0002

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PASCOAG UTILITY DISTRICT PO BOX 107 PASCOAG RI 02859-0107

SHIPPED TO: 77375

PASCOAG UTILITY DISTRICT PO BOX 107 PASCOAG RI 02859-0107

ORDERED BY ACCOUNT NUMBER **CUSTOMER PO NUMBER RELEASE NUMBER** 77375 **JOHN VERBAL** SHIP DATE SHIP VIA SALESMAN SHIPPING BRANCH **INVOICE NUMBER** 06/16/2016 PK PICK UP **GARY PARIS** S025752857.001 **NWOO EXT PRICE UNIT PRICE** UOM ORDER QTY SHIP QTY SKU DESCRIPTION 04613575086 SYL LED12T8/L48/F/841/SUB/G5 20 20 17.14 ea 342.80 (75086) 4FT SUBSTITUBE LED T8 TUBE GL 592.10 WITH FROSTED LENS JUN 2 3 2016 Received: Approved:_ GL Account:____ Vendor #: Invoice #: It's Easy Being Green. Receive, store, view, and pay your invoices online at: Go Paperless Today! http://needco.billtrust.com 6/16/2016 11:35:06 AM 342.80

All payments are due by 07/16/16.

A monthly service charge, up to the maximum allowed by law, will be added to all past due invoices.

S025752857.001

SUBTOTAL S & H CHARGES **SALES TAX**

PO BOX 415931

0.00 0.00

TOTAL DUE

342.80

JOHN



http://needco.billtrust.com

USE THIS ENROLLMENT CODE: FMV FSS FVF

NORTHEAST ELECTRICAL DISTRIBUTORS

TO VIEW ONLINE GO TO:

BOSTON MA 02241-5931

Payment Mailing Address:



NORTHEAST ELECTRICAL DISTRIBUTORS 895 CUMBERLAND HILL RD WOONSOCKET,RI 02895-5611 401-762-3871 Fax 401-765-6239



S025752857.001

Ship Ticket

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gary.paris@needco.com

SOLD TO:

PASCOAG UTILITY DISTRICT PO BOX 107

PASCOAG, RI 02859-0107

401-568-6222 Fax: 401-568-0066

SHIP TO:

PASCOAG UTILITY DISTRICT

PO BOX 107

PASCOAG, RI 02859-0107

401-568-6222 Fax: 401-568-0066

CUSTOMER	NUMBER		CUSTOMER ORDER N	MBER	SMAN BOC			ORDERE	D-BY	
773	75	VER	BAL			nga nga taon ngunda ka Saba ta Baharan k a Saba ta Baharan ka Saba	JOHN			
	WRITE				SALES ORDER#		SHIP BRANCH		SHIP DATE	
GARY PA				S02575	2857.001	NWOO			06/16/16	
ORDER QTY	SHIP OTY	UM			ESCRIPTION		UNIT PRICE	U	EXT PRICE	
20	20	ea ea		4FT SUB	/F/841/SUB/G5 STITUBE LED T8	TUBE	17.140	0	342.80	
							Subtot		342.80	
						Lacinos	S&H CHO Sales To		0.00	
							Amount D	ue	342.80	
Stage Loc Totals: C	: TNS	_ COI	ILBUNI) RE	3EL		3025. MA 30.06 II 30.06 SAM	752857.001		

TERMS & CONDITIONS se listed on this order has been produced in accordance with the Fair Labor Standards Act of 1938 M-Namended. Material not returnable without no first order is subject to Company Terms and Conditions of Sale, which provisions shall govern in the event of any conflict with any Terms or sof Purchaser's proposal, purchase order or other documents lif you make a tax-tree purchase that is later determined by a Department of Revenue to be purchase, you are responsible for all applicable taxes, interest, and penalties. 1.50% PER MONTH FINANCE CHARGE WILL BE ADDED TO ALL PAST DUE THIS IS AN ANNUAL RATE OF 18.00%



NORTHEAST ELECTRICAL DISTRIBUTORS 895 CUMBERLAND HILL RD WOONSOCKET,RI 02895-5611 401-762-3871 Fax 401-765-6239



S025777394.001

Ship Ticket

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ken.mcgee@needco.com

SOLD TO:

PASCOAG UTILITY DISTRICT PO BOX 107 PASCOAG, RI 02859-0107 401-568-6222 Fax: 401-568-0066 SHIP TO:

PASCOAG UTILITY DISTRICT

PO BOX 107

PASCOAG, RI 02859-0107

401-568-6222 Fax: 401-568-0066

CUSTOMER	NUMBER		CUSTOMER ORDER N	MBER	JOB NAME			ORDERE	D BY
773	75	OFF:	ICE				JOHN		
	WRITE	R			SALES ORDER#		SHIP BRANCH		SHIP DATE
	H MCGEE			S025777394.001 NWOO				06/20/16	
ORDER OTY	SHIP OTY			\$55560000000000000000000000000000000000	ESCRIPTION CERTS (SE		UNIT PRICE	U	EXT PRICE
20	20	ea		4FT SUB	/F/841/SUB/G5 STITUBE LED T8 NS	TUBE	17.140	е	342.80
2	2	ea	3M 1700C 3/4X66FT		DE TAPE		1.310	е	2.62
2	2	ea	3M 1700C 3/4X66FT		DE TPE		1.310	е	2.62
2	2	ea	3M 1700C 3/4X66FT		E TPE		1.310	е	2.62
1	1	ea	SEPCO SS 3/4 SNAP		BLAN		46.190	С	0.46
1	1	ea	SEPCO SS 1-IN SNA		BLA		61.990	С	0.62
							·		
							Subtot	al	351.74
							S&H CH	- 1	0.00
							Sales T	- 1	0.00
						ę	Amount D	ue 777394.00	351.74

Stage	Loc:
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Totals: CTNS COIL BUND REEL

TERMS & CONDITIONS

Merchandise listed on this order has been produced in accordance with the Fair Labor Standards Act of 1938 and Manager of the English of En



Branch Serving You: NORTHEAST ELECTRICAL DISTRIBUTORS 895 CUMBERLAND HILL RD WOONSOCKET RI 02895-5611 401-762-3871 Fax 401-765-6239

INVOICE

S025777394.001 06/20/16

Page 1 of 1



SOLD TO:

836 1 AT 0.399 E0131 I0241 D1772877174 S2 P3334367 0002:0002

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PASCOAG UTILITY DISTRICT PO BOX 107 PASCOAG RI 02859-0107 PASCOAG UTILITY DISTRICT PO BOX 107 PASCOAG RI 02859-0107

SHIPPED TO: 77375

ACCOUNT NUMBER	CUSTOMER PO NU	JMBER		RELEASE NUM	BER	ORD	ERED B	Υ		
77375	OFFICE					JOHN				
SALE	SMAN	INVOICE NU	IMBER	SHIPPING	BRANCH	SHIP DATE		SHIP VIA		
Dorothy	Mcgee	S02577739	94.001	NW	00	06/20/2016	PK PICK UP			
SKU	DESCRIPT	FION		ORDER QTY	SHIP QTY	UNIT PRICE	MOU	EXT PRICE		
(7508	.ED12T8/L48/F/841/SU 6) 4FT SUBSTITUBE I FROSTED LENS		:	20	20	17.14	ea	342.8		
05400750653 3M 17 3/4X6	'00C-RED 6FT VIN CODE TAPE			2	2	1.31	ea	2.6		
3/4X6 3M 17	'00C-BLUE 6FT VIN CODE TPE			2	2	1.31		2.6		
05400750655 3M 17 3/4X6	'00C-WHITE 6FT VIN CDE TPE			2	2	1.31		2.6		
78599422527 SEPC 3/4 SI	O SS52 NAP-IN KO BLAN			1	1	46.19		0.4		
78599422547 SEPC 1-IN S	O SS54 SNAP-IN KO BLA			1	1	61.99	С	0.6		
	JUN 2 3 2016									
Approved:										
GL Account:										
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Invoice #:			-	Today!		llid.cobeen\::qttr		<u>om</u>		
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All payments are due by 07/20/16.

A monthly service charge, up to the maximum allowed by law, will be added to all past due invoices.

OHN JANGOJ

S025777394.001

6/20/2016 11:24:22 AM

 SUBTOTAL
 351.74

 S & H CHARGES
 0.00

 SALES TAX
 0.00

 TOTAL DUE
 351.74

Payment Mailing Address:
NORTHEAST ELECTRICAL DISTRIBUTORS
PO BOX 415931
BOSTON MA 02241-5931





Branch Serving You: NORTHEAST ELECTRICAL DISTRIBUTORS 895 CUMBERLAND HILL RD WOONSOCKET RI 02895-5611 401-762-3871 Fax 401-765-6239 INVOICE

S025804332.001 06/22/16

Page 1 of 1



SOLD TO:

374 1 AB 0.399 E0093X I0170 D1775590841 S2 P3338311 0001:0001

<u> իսՄվիակմիմինիագիրիիՄիայիզինիցիինիկիննեն</u>գ

PASCOAG UTILITY DISTRICT PO BOX 107 PASCOAG RI 02859-0107

SHIPPED TO: 77375

PASCOAG UTILITY DISTRICT PO BOX 107 PASCOAG RI 02859-0107

ACCOUNT NUMBER	CUSTOMER PO N	UMBER	RELEASE NUMI	BER	ORD	ERED BY
77375	OFFICE		Section 1 (All Conference of the Conference of t		J	OHN
SALES	SMAN	INVOICE NUMBER	SHIPPING	BRANCH	SHIP DATE	SHIP VIA
KENNETH	A NAME OF THE OWNER OWNE	S025804332.001	- menantel more in the contra	00	06/22/2016	PK PICK UP
SKU 03448106106 CARL	ON E940J	TION	ORDER QTY	SHIP QTY 12	UNIT PRICE 58.93	C EXT PRICE
04613575086 SYL L (75086	/C COUPLING ED12T8/L48/F/841/S S) 4FT SUBSTITUBE FROSTED LENS		20	20	17.14	ea 34
Approved:						
Vendor #:						
45		s Easy Being Paperless			Receive, store, view, invoices onlin http://needco.bill	ne at:

All payments are due by 07/22/16.

A monthly service charge, up to the maximum allowed by law, will be added to all past due invoices.

JOHN

S025804332.001

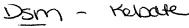
349.87 **SUBTOTAL** S & H CHARGES 0.00 0.00 **SALES TAX TOTAL DUE** 349.87

Payment Mailing Address: NORTHEAST ELECTRICAL DISTRIBUTORS PO BOX 415931 BOSTON MA 02241-5931



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6/22/2016 11:17:59 AM





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S025804332.001 06/22/16

Page 1 of 1



SOLD TO:

374 1 AB 0.399 E0093X I0170 D1775590841 S2 P3338311 0001:0001

PASCOAG UTILITY DISTRICT **PO BOX 107** PASCOAG RI 02859-0107

SHIPPED TO: 77375

PASCOAG UTILITY DISTRICT PO BOX 107 PASCOAG RI 02859-0107

ACCOUNT NUMBER	CUSTOMER PO	IUMBER	RELEASE NUM	BER	ORD	ERED BY	복조실 첫
77375	OFFICE		100 or 4.000 or 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		J	OHN	
SALE: KENNETH	SMAN H MCGEE	INVOICE NUMBER S025804332.001	1	BRANCH OO	SHIP DATE 06/22/2016	SHIP VI PK PICK	
SKU	DESCRI	PTION	ORDER QTY	SHIP QTY	UNIT PRICE	UOM EXT	PRICE
03448106106 CARL	ON E940J VC COUPLING		12	12	58.93	С	7.07
04613575086 SYL L (75086			20	20	17.14	ea	342.80
	JUN 2 7 2016						
Vendor #:							
Invoice #:							
30		s Easy Being o Paperless			Receive, store, view, invoices onlir	ne at:	

All payments are due by 07/22/16.

A monthly service charge, up to the maximum allowed by law, will be added to all past due invoices.

JOHN

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SUBTOTAL S&HCHARGES SALES TAX

0.00 0.00 349.87

349.87

Payment Mailing Address: NORTHEAST ELECTRICAL DISTRIBUTORS

PO BOX 415931 BOSTON MA 02241-5931

TOTAL DUE





NORTHEAST ELECTRICAL DISTRIBUTORS 895 CUMBERLAND HILL RD WOONSOCKET,RI 02895-5611 401-762-3871 Fax 401-765-6239



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ken.mcgee@needco.com

SOLD TO:

PASCOAG UTILITY DISTRICT PO BOX 107 PASCOAG, RI 02859-0107

401-568-6222 Fax: 401-568-0066

SHIP TO:

PASCOAG UTILITY DISTRICT

PO BOX 107

PASCOAG, RI 02859-0107

401-568-6222 Fax: 401-568-0066

CUSTOMER	NUMBER		CUSTOMER ORDER N	UMBER	JOB NAME			ORDERE	D. BY
773		OFF	ICE	<i>-</i>			JOHN		
	WRITE	R			SALES ORDER#		SHIP BRANCH		SHIP DATE
	H MCGEE	,,,,,,,,,,,			4332.001	NWOO		06/22/16	
ORDER OTY	SHIP OTY	UM			ESCRIPTION		UNIT PRICE	U	EXT PRICE
12	12	ea	CARLON E 2IN PVC		G		58.930	С	7.07
20	20	ea		4FT SUB	/F/841/SUB/G5 STITUBE LED T8 NS	TUBE	17.140	е	342.80
							Subtot S&H CH	GS	349.87 0.00
							Sales T	ax	0.00
							Amount D		349.87
						6153	212016 11:17:59 AIM \$0258	100.322.001	
tage Loc	:				***************************************		n O Ands	The state of	

Stage Loc:
Totals: CTNS____ COIL___ BUND___ REEL____

TERMS & CONDITIONS

Merchandise listed on this order has been produced in accordance with the Fair Labor Standards Act of 1938 **Dimmended. Material not returnable without permission. This order is subject to Company Terms and Conditions of Sale, which provisions shall govern in the event of any conflict with any Terms or a taxable purchaser's proposal, purchase order or other documents. If you make a tax-tree purchase that is lateratived by a Department of Revenue to be INVOICES. THIS IS AN ANNUAL RATE OF 18:00° all applicable taxes, interest, and penalties. 1:50° per MONTH FINANCE CHARGE WILL BE ADDED TO ALL PAST DUE

RIPUC DOCKET 4663

Pascoag Utility District Street Lighting Project

\$ 150,000.00 \$ 27,000.00 \$ 35,997.00 \$ 20,991.00 \$ 233,988.00	427 147.00 \$ 62,769.00 338 \$ 42.00 \$ 14,196.00 427 \$ 15.00 \$ 6,405.00 \$ 83,370.00	88 \$ 170.00 \$ 14,960.00 0 \$ - 88 15 \$ 1,320.00 \$ 16,280.00	20 \$ 263.00 \$ 5,260.00 0 \$ - \$ - 20 \$ 15.00 \$ 300.00 \$ 5,560.00	a 250Watt HPS Flood) 51 \$ 629.00 \$ 32,079.00 51.00 \$ 2,601.00 51 \$ 15.00 \$ 765.00 51 \$ 35,445.00	PS). 24 \$ 374.00 \$ 8,976.00 24 \$ 15.00 \$ 360.00 \$ 9,336.00	610 \$ 149,991,00	610 137.7 \$ 83,997.00
LED STREET LIGHT 2015 GRANT MONEY II RIGGI Grant Money Pascoag Utility District Capital Funds Balance for 2015 & 2016 (\$7000 & \$20,000) 2015 DSM Rebate Funds for LED Street Lights 2015 Street Light Maintenance Account (GL# 585)	ATBS B MVOLT R-3 PCL1 (24 Watt Input 2309 Lumens) with photo eye Brackets Misc. Materials	ATBS F MVOLT R-3 PCL1 (49 Watt input, 4477 Lumens) with photo eye Brackets Misc. Materials	ATBO 20 B LED-E70 R-3 700 MA 49 watt Input with photo eye Brackets Misc. Materials	ACP1LED 310A MVOLT 65 4K YK GY 0663 PCLI with Photo eye 120 Watts(Equivalent to a 250Watt HPS Flood) Brackets Misc. Materials	LED Decorative Series 247L 20 LEDE10 Mvolt 4K R3 AY 72 Watts (Replacing 150 Watt HPS) MISC MATERIALS	TOTAL MATERIALS	Total Labor/Transportation

Hetrofit - franciol - analysis 7001-VI.1.01 Grant II money - Street Usats + Flood Ugats

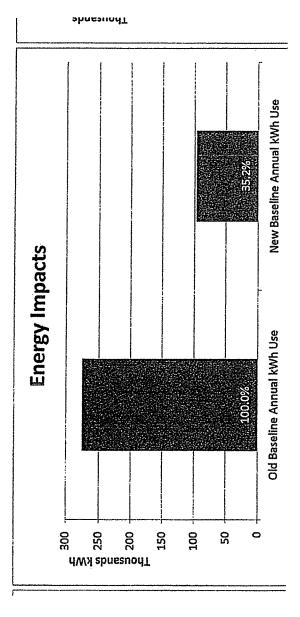
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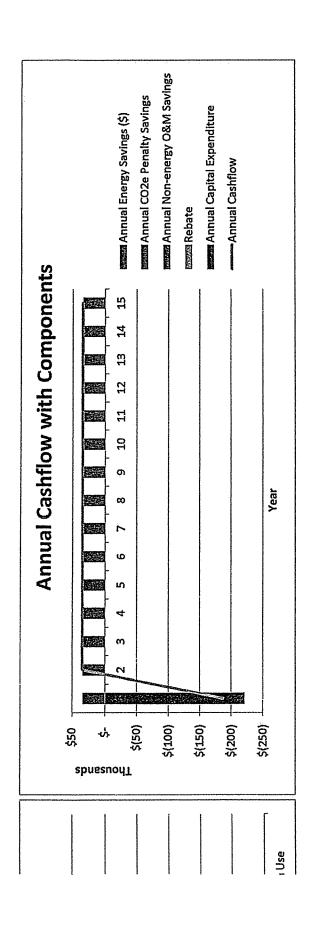
Pre-Finance Results Summary

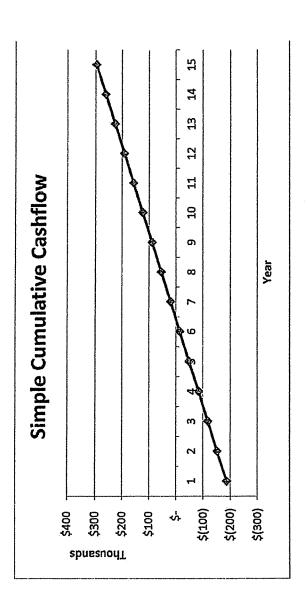
15	
Analysis Period	

Simple Payback (years)		6.4
15-Year Unlevered IRR		16.22%
15-Year Unlevered NPV (\$)	s	296,331
15-Year Capital Expenditure (\$)	s	221,347
15-Year Cap. Ex. \$/kWh Saved	s	0.0826
15-Year Cap. Ex. \$Iton CO2e Saved	\$	149.8326

Annual kWh Savings		178,547
Annual Energy Cost Savings (\$)	\$	16,367
Annual GHG Savings (tCO ₂ e)		86
Old Baseline Annual KWh Use		275,711
Old Baseline Annual Energy Cost (\$)	ss	25,274
Old Baseline Annual GHGs (tCO ₂ e)		152
New Baseline Annual kWh Use		97,164
New Baseline Annual Energy Cost (\$)	\$	8,907
New Baseline Annual GHGs (tCO ₂ e)		54







			Annual O&	S.M.	Annual Non-						Annual CO ₂ e
	Annual Capital		Savings (incl.	nci.	energy O&M	Annual CO ₂ e	Annual	Cumulative	Annual Energy	Annual Energy	Avoided
Year	Expenditure	Rebate	energ	gy).	Savings	Savings: Penalty Savings	Cashflow	Cashflow	Savings (\$)	Savings (kWh)	(Tonnes/Yr)
-	\$ 221,347 \$	ı	\$ 34,51	12 \$	18,145	\$ ·	(186,835) \$	(186,835)	\$ 16,367	178,547	96
7	69	•	\$ 34,51	12 \$	18,145	65	34,512 \$	(152,323)	\$ 16,367	178,547	86
e	€9·	,	\$ 34,51	112 \$	18,145	65 1	34,512 \$	(117,811)	\$ 16,367	178,547	86
4	· 69	•	\$ 34,51	112 \$	18,145	69 1	34,512 \$	(83,300)	\$ 16,367	178,547	86
S.	69 1	•	\$ 34,51	112. \$	18,145	69 1	34,512 \$	(48,788)	\$ 16,367	178,547	86
9	69	•	\$ 34,51	112 \$	18,145	·	34,512 \$	(14,276)	\$ 16,367	178,547	86
7	59	•	\$ 34,51	112 \$	18,145	63 1	34,512 \$	20,236	\$ 16,367	178,547	98
∞	69 1	•	\$ 34,51	112 \$	18,145	69 1	34,512 \$	54,748	\$ 16,367	178,547	86
. 6	· 69	•	\$ 34,5	12 \$	18,145	€9:	34,512 \$	89,260	\$ 16,367	178,547	86
9	<i>6</i> 3-	•	\$ 34,51	112 \$	18,145	49 1	34,512 \$	123,772	\$ 16,367	178,547	86
=	· ()	•	\$ 34,5	112 \$	18,145	63 1	34,512 \$	158,284	\$ 16,367	178,547	86
. 21	1	1	\$ 34,51	112 \$	18,145	69 ·	34,512 \$	192,796	\$ 16,367	178,547	86
5	€ 9	1	\$ 34,51	112 \$	18,145	ь ,	34,512 \$	227,308	\$ 16,367	178,547	86
4	· 6 Э		\$ 34,51	112 \$	18,145	€9 1	34,512 \$	261,820	\$ 16,367	178,547	86
15	69 1	•	\$ 34,51	312 \$	18,145	69	34,512 \$	296,331	\$ 16,367	178,547	86

ımary	Annual CO ₂ e	Avoided	(Tonnes/Yr)	86	- 86 - 86	86	86	86	- 186 - 186	86	86	86		-86 -86	86	86	86	86
ental Savings Summary		Annual Energy	Savings (kWh)	178,547	178,547	178,547	178,547	178,547	178,547	178,547	178,547	178,547	178,547	178,547	178,547	178,547	178,547	178,547
Environmental		Annual Energy	Savings (\$)	16,367	16,367	16,367	16,367	16,367	16,367	16,367	16,367	16,367	16,367	16,367	16,367	16,367	16,367	16,367
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New Annual Energy	Consumption (KWh)	97,164	97,164	97,164	97,164	97,164	97,164	97,164	97,164	97,164	97,164	97,164	97,164	97,164	97,164	97,164
New Annual	Energy Costs (\$)	8,907	8,907	8,907	8,907	8,907	8,907	8,907	8,907	8,907	8,907	8,907	8,907	8,907	8,907	8,907
		₩	₩	↔	↔	↔	69	())	↔	↔	€9	₩	€9	€9	↔	€9
New Annual	Non-energy O&M (\$)	3,337	3,337	3,337	3,337	3,337	3,337	3,337	3,337	3,337	3,337	3,337	3,337	3,337	3,337	3,337
		ક્ક	↔	↔	₩	↔	↔	↔	↔	69	₩	မှ	↔	↔	₩	↔
	New Annual O&M (\$)	12,244	12,244	12,244	12,244	12,244	12,244	12,244	12,244	12,244	12,244	12,244	12,244	12,244	12,244	12,244
		ક	63	69	69	↔	↔	€9	€	69	€	↔	↔	↔	€9	G
Energy	Consumption (KWh)	275,711	275,711	275,711	275,711	275,711	275,711	275,711	275,711	275,711	275,711	275,711	275,711	275,711	275,711	275.711
	Energy Costs (\$):	\$ 25.274							\$ 25.274		\$ 25,274				\$ 25,274	\$ 25,274
	- (\$															Σ.
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Section Two

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Old Technologies Removed 30 W.HPS: SLES 50W C. M. PS. SLES 10W C. M. PS. SLES 15W C. M. PS. SLES 1			133.6	400	3		统宏	35.63	1	132	10	N.	1500	146.1	25.5		1	意	8
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Old Technologies Rem 50 W.HPSISL: -50W. 70 W.HPSISL: -70W. 100 W.HPSISL: -1150W. 150 W.HPSISL: 1150W. 175 W.H. MACELTY: 117 250 HPSISL: 1250W. 250 HPSISL: -1150W.		9	33453		3	3	ž			2562			4637	1	3	2.4%	8	1	8
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004 74 20 W. 100 W. 1150 W. 1150 W. 1250 H. 250 H. 250 H.	***************************************	ologies !	SIS	SL	SSL	SS	Z S	8	Š.	200	S.	Sec.		100	200	10.27	500 E	100	是我
		chnologies F	- ISSH	HPSSI	HPS SI	HPSSL	Valt Morcu	PS Flood:	A. 18 (18)		NAME OF THE PERSON IN	Market St.		C. 10.11	经营营的	TANKS THE	STREET	THE PARTY	A STANSON
	***************************************	d Technologies	WHPS SIZE	WHPSISH	W HPS SL	N HPS SL	5:Walt Morcu	O HPS Flood:	Section of the second		SAME SAME SAME	STATE STATES	STREETS STREET	CANAL MARKS	经营销的	WINDS	SAMPLE SERVICE		東部の数字であ

In soction one, enter data for all fixturasitechnologies, both old/existing and new. In section two, further balow, enter data for impacted fixtures only.

Section one			Power Demand & Dimming	ıming	The Comment of the		A SAME OF THE		Take to the	Installation
							Annual	Annual	Not Annual	
						Dimmed	Operating	Operating	Operating	Current
. *		Additional				Output Level	Hours -		Hours -	Fixture
		Description	Lamp Watts (per	amp Watts (per System Watts		(% of Full	100%	Dimmed 1	100% Output	Cost
	The state of the s	Contonal	Winn	(ner unit)		Output	Output) Output (hrs.) Output (hrs.)	Output (hrs)	(hrs)	(\$/unit
Specific Technology Names	ABILIANI ARGIOTICA I	i i i i i i i i i i i i i i i i i i i	A STATE OF STATE OF STATE OF	A. 46. See	A SECTION OF STREET	2012 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LCL P. LEWIS	ののはないのうない	4323	
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SOW HPS SL: 50W	SON THE SECTION OF THE PROPERTY OF THE PROPERT	-1	î.	S. C.		•	2000	Co. S. Supply State of Co. S. Co.	222	JU 20 . 24.00
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100 W HPS SL: 100W	NW AFO SUPPLY STATES OF THE ST	200	4	1	To Both Street Section 5	360 U	CERTIFICATION 323 8	· 表示於 对对 · · · · · · · · · · · · · · · · · ·	4,323	X 85.00
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250 HPS Flood: ZDVW			061	1 100 11 11 11 11 11 11 11 11 11 11 11 1		3,000 COCCAS	323	おいまればのある	4,323	Sec. 695.00
120 W FD Flood: 120W			100000000000000000000000000000000000000		The state of the s			ľ		

echnology-Specific Inputs
In section one, enter data for all fixtures/tochnologies, both old/oxisting and now.
In section two, further below, enter data for impacted fixtures only.

Section One

		Power Demand & Dimming	ming
Specific Technology Names	Additional Technology Names (collonal)	Lomp Watts (per System Watts unit)	System Watts foer unit
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	AND	Mideral Assettantingtonyaricalla	Sharring Manual of Control of
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	solicidischi iniduschina adaminischi seksosian or	MENTER ATTACKS MODERATE CONTRACTOR	TOTAL SECRETARIAN SECTION OF THE SEC
150 W HPS SL: 150W	150 W.HPS SERVICE CONTRACTOR FREE SERVICES	Chine a same and comments	183 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
150 W LED Decorative: 72W	150 W.LED Decorative Control of the	Zanten meneral same senten	7
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-				Annual O&M	Annual Non-	- 1 · • •	ti gava	
	٩	Annual Capital		Savings (incl.	energy O&M	Annual CO ₂ e	Annual	Cumulative
Year		Expenditure	Rebate	energy)	Savings	Savings Penalty Savings	Cashflow	Cashflow
	မာ	12,641 \$	₩	2,195	\$ 1,048	⊕	(10,445) \$	(10,445)
~	↔	€	€Ð. I	2,195	\$ 1,048	€	2,195 \$	(8,250)
<u>ო</u>	⇔	€)	ப ி	2,195	\$ 1,048	€ 9	2,195 \$	(6,055)
4	€9	€ Э	1	2,195	\$ 1,048	₩	2,195 \$	(3,859)
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ω	⇔	6 Э	↔	2,195	\$ 1,048	₩ 1	2,195 \$	4,923
<u>ი</u>		⇔ 1	€	2,195	\$ 1,048	⇔	2,195 \$	7,118
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Ξ	69	€	⇔	2,195	\$ 1,048	€)	2,195 \$	11,509
12	⇔	€)	69	τ	\$ 1,048	⇔ '	2,195 \$	13,704
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14	₩	€)	1	2,195	\$ 1,048	сэ -	2,195 \$	18,095
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Avoided (Tonnes/Yr)	Annual Energy Savings (kWh)	Annual Energy Savings (\$)
Annual CO ₂ e	•	

がなる。	New Annual	Energy	Consumption	(KWh)	7,470	7,470	7,470	7,470	7,470	7,470	7,470	7,470	7,470	7,470	7,470	7,470	7,470	7,470	7,470
· · · · · · · · · · · · · · · · · · ·		New Annual	Energy Costs	(\$)	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685
	,	New Annual	Non-energy	O&M (\$)	1	⇔	· 69	⊕	es I	` ⇔	⊕	€ Э	. 69	i I	↔	€ O	Ө	⇔	1
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t-Project Date		. • •	New Annual	O&M (\$)	685	685	. 685	685	685	685	685	685	685	685	685	685	685	685	685
Pos			. .		69	63	69	↔	↔	↔	₩	69	€	69	69	€	₩	€	co
Selected Pre- and Post-Project Data	Old Annual	Energy	Consumption	(KWh)	19,983	19,983	19,983	19,983	19,983	19,983	19,983	19,983	19,983	19,983	19,983	19,983	19,983	19,983	19,983
S	añ a	Old Annual	Energy Costs	(\$)	\$ 1,832	\$ 1,832	\$ 1,832	\$ 1,832	\$ 1,832	1,832	1,832	\$ 1,832	\$ 1,832	\$ 1,832	-		\$ 1,832	\$ 1,832	1,832
			Old Annual Old Annual Non-	O&M (\$) energy O&M (\$)	\$ 1,048	\$ 1,048 (\$ 1,048 (\$ 1,048	1,048	\$ 1,048	\$ 1,048 (\$ 1,048	\$ 1,048		\$ 1,048 \$		\$ 1,048 \$	\$ 1,048
	Fide		Old Annual (O&M (\$)	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880	2,880
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NVIRONMENTAL IMPACT	Year 1
otal Environmental Impact	en e
Electricity Savings	
Electricity Consumption - Business As Usual	
Business As Usual kWh Consumption	19,983
	15.545
Total kWh Saved	12,512
CO2e Emissions Avoided (tonnes)	
CO2e from Electricity (kgs)	
Total CO2e from Electricity (kgs)	6,902
CO2e from Vehicle (kgs)	
Total CO2e from Vehicle (kgs)	0
Total CO2e Emissions Avoided (tonnes)	7
CO2e Savings (\$)	
Total CO2e Savings (\$)	U

100 W HPS SL: 100W

100 W HPS SL. 100W		
CO2e Savings		
CO2e Emission	ons Avoided (tonnes)	
l Co	D2e from Electricity (kgs)	
	kWh Saved	
	Pre-Project Baseline Contribution kWh	19,108
	Removed Technology kWh During Project	. 0
	Installed Technology kWh During Project	0
	Total kWh Saved	19,108
	Emissions Factor	0.55
	Total CO2e from Electricity (kgs)	10,540
Co	D2e from Vehicle (kgs) Minutes In Use	
	Pre-Project Baseline Maintenance Min.	588
	Removed Technology Maintenance Min.	0
	Installed Technology Maintenance Min.	0
	Installation Vehicle Min.	0
	Total Minutes Used	588
	Vehicle Fuel Consumption Per Minute	0.00
	Emissions Factor Per Unit of Fuel	0.00
	Total CO2e from Vehicles (kgs)	0
Total CO26	e Emissions Avoided (tonnes)	11
CO2e Penalty	(\$/ton)	0.00
Total CO2e Savings (0
Total CO2a Savinga 100 W	LIDS SI . 400W	0
Total CO2e Savings 100 W	TIPO OL. TOUVY	

0 W HPS SL: 150W

CO2e Savings	
CO2e Emissions Avoided (tonnes)	
CO2e from Electricity (kgs)	
kWh Saved	
Pre-Project Baseline Contribution kWh	21,648
Removed Technology kWh During Project	0
Installed Technology kWh During Project	0
Total kWh Saved	21,648
Emissions Factor	0.55
Total CO2e from Electricity (kgs)	11,941
CO2e from Vehicle (kgs) Minutes In Use	
Pre-Project Baseline Maintenance Min.	450
Removed Technology Maintenance Min.	0
Installed Technology Maintenance Min.	0
Installation Vehicle Min.	0
Total Minutes Used	450
Vehicle Fuel Consumption Per Minute	0.00
Emissions Factor Per Unit of Fuel	0.00
Total CO2e from Vehicles (kgs)	0
Total CO2e Emissions Avoided (tonnes)	12
CO2e Penalty (\$/ton)	0.00
Total CO2e Savings (\$)	0
Total CO2e Savings 150 W HPS SL: 150W	Ö

150 W HPS SL: 150W	
CO2e Savings	
CO2e Emissions Avoided (tonnes)	
CO2e from Electricity (kgs)	
kWh Saved	
Pre-Project Baseline Contribution kWh	19,983
Removed Technology kWh During Project	0
Installed Technology kWh During Project	0
Total kWh Saved	19,983
Emissions Factor	0.55
Total CO2e from Electricity (kgs)	11,022
CO2e from Vehicle (kgs)	
Minutes In Use	
Pre-Project Baseline Maintenance Min.	415
Removed Technology Maintenance Min.	0
Installed Technology Maintenance Min.	0
Installation Vehicle Min.	0
Total Minutes Used	415
Total Williams O'Sou	
Vehicle Fuel Consumption Per Minute	0.00
Emissions Factor Per Unit of Fuel	0,00
Total CO2e from Vehicles (kgs)	0
Total GOZE Helli Verilelee (199)	
Total CO2e Emissions Avoided (tonnes)	11
Total Goze Emissions Avoided (tormes)	
CO2e Penalty (\$/ton)	0.00
Total CO2e Savings (\$)	0
Total 0020 darings (4)	
Total CO2e Savings 150 W HPS SL: 150W	0
Total Coze Savings 150 Will Got. 1500V	

175 Watt Mercury: 175W	
CO2e Savings	
CO2e Emissions Avoided (tonnes)	
CO2e from Electricity (kgs)	
kWh Saved	
Pre-Project Baseline Contribution kWh	42,538
Removed Technology kWh During Project	0
Installed Technology kWh During Project	0
Total kWh Saved	42,538
Emissions Factor	0.55
Total CO2e from Electricity (kgs)	23,464
CO2e from Vehicle (kgs)	
Minutes In Use	
Pre-Project Baseline Maintenance Min.	0
Removed Technology Maintenance Min.	0
Installed Technology Maintenance Min.	0
	0
Installation Vehicle Min. Total Minutes Used	<u>0</u>
Total Williutes Osed	U
Vehicle Fuel Consumption Per Minute	0.00
Emissions Factor Per Unit of Fuel	0.00
Total CO2e from Vehicles (kgs)	0
Total CO2e Emissions Avoided (tonnes)	23
CO2e Penalty (\$/ton)	0.00
Total CO2e Savings (\$)	0
Total CO2e Savings 175 Watt Mercury: 175W	
Total Cold Satings fro Water Molodly, 17044	0

150 W LED Decorative:	72W	
CO2e Savings		
CO2e E	Emissions Avoided (tonnes)	
	CO2e from Electricity (kgs)	
	kWh Saved	
	Pre-Project Baseline Contribution kWh	0
	Removed Technology kWh During Project	0
	Installed Technology kWh During Project	7,470
	Total kWh Saved	-7,470
	Emissions Factor	0.55
	Total CO2e from Electricity (kgs)	-4,121
	CO2e from Vehicle (kgs)	
	Minutes In Use	
	Pre-Project Baseline Maintenance Min.	0
	Removed Technology Maintenance Min.	0
	Installed Technology Maintenance Min.	0
	Installation Vehicle Min.	1,440
	Total Minutes Used	-1,440
	Vehicle Fuel Consumption Per Minute	0.00
	Emissions Factor Per Unit of Fuel	0.00
	Total CO2e from Vehicles (kgs)	0
Tota	al CO2e Emissions Avoided (tonnes)	-4
CO2e I	Penalty (\$/ton)	0.00
Total CO2e Sav		0

0

Total CO2e Savings 150 W LED Decorative: 72W

70 W HPS SL: 70W CO2e Savings	
CO2e Savings CO2e Emissions Avoided (tonnes)	
CO2e from Electricity (kgs)	
kWh Saved	
Pre-Project Baseline Contribution kWh	79,509
Removed Technology kWh During Project	0
Installed Technology kWh During Project	0
Total kWh Saved	79,509
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	70,000
Emissions Factor	0.55
Total CO2e from Electricity (kgs)	43,857
CO2e from Vehicle (kgs) Minutes In Use Pre-Project Baseline Maintenance Min. Removed Technology Maintenance Min.	3,616 0
Installed Technology Maintenance Min.	0
Installation Vehicle Min.	Ó
Total Minutes Used	3,616
Vehicle Fuel Consumption Per Minute	0.00
Emissions Factor Per Unit of Fuel	0.00
Total CO2e from Vehicles (kgs)	0
Total CO2e Emissions Avoided (tonnes)	44
CO2e Penalty (\$/ton)	0.00
Total CO2e Savings (\$)	0
Total CO2e Savings 70 W HPS SL: 70W	. 0
Total Coze Savings 70 VV FFS SL. 70VV	U

50 W HPS SL: 50W

อบ	W HPS SL:	50W	
į	CO2e Sa	evings	
į	1	CO2e Emissions Avoided (tonnes)	
		CO2e from Electricity (kgs)	
į		kWh Saved	
i	l	Pre-Project Baseline Contribut	ion kWh 62,199
į	i	Removed Technology kWh Du	The state of the s
1	l'	Installed Technology kWh Dur	
1	1 1 1	Total kWh Saved	48,504
1		Emissions Foster	0.55
į	ļ	Emissions Factor	0.55
į	į	Total CO2e from Electricity (kgs)	26,755
į	İ	CO2e from Vehicle (kgs)	
i	1	Minutes In Use	
į	ļ	Pre-Project Baseline Maintena	nce Min. 3,772
i	ļ	Removed Technology Mainten	
į	į	Installed Technology Maintena	
i		Installation Vehicle Min.	2,880
į	į	Total Minutes Used	62
į	i	Total Millaco Cocc	UZ.
1	[Vehicle Fuel Consumption Per Minute	0.00
ļ		Emissions Factor Per Unit of Fuel	0,00
į		Total CO2e from Vehicles (kgs)	0
-	ļ		
		Total CO2e Emissions Avoided (tonnes)	27
		CO2e Penalty (\$/ton)	0.00
į	Total C	CO2e Savings (\$)	0.00
Ì	1.0.01	322 3311,32 (¥)	<u> </u>
ŀ	Total CO2e S	Savings 50 W HPS SL: 50W	0
_			

50 W LED SL: 49W	
CO2e Savings	
CO2e Emissions Avoided (tonnes)	
CO2e from Electricity (kgs)	
kWh Saved	
Pre-Project Baseline Contribution kWh	0
Removed Technology kWh During Project	0
Installed Technology kWh During Project	12,710
Total kWh Saved	-12,710
	·
Emissions Factor	0,55
Total CO2e from Electricity (kgs)	-7,011
CO2e from Vehicle (kgs)	
Minutes In Use	
Pre-Project Baseline Maintenance Min.	Ó
Removed Technology Maintenance Min.	0
Installed Technology Maintenance Min.	0
Installation Vehicle Min.	3,600
Total Minutes Used	-3,600
Vehicle Fuel Consumption Per Minute	0.00
Emissions Factor Per Unit of Fuel	0.00
Total CO2e from Vehicles (kgs)	0
Total CO2e Emissions Avoided (tonnes)	-7
CO2e Penalty (\$/ton)	0.00
Total CO2e Savings (\$)	0
Total CO2e Savings 50 W LED SL: 49W	0

vironmental Impact By Technology	
W LED SL: 24W	
CO2e Savings	
CO2e Emissions Avoided (tonnes)	
CO2e from Electricity (kgs)	
kWh Saved	_
Pre-Project Baseline Contribution kWh	0
Removed Technology kWh During Project	0
Installed Technology kWh During Project	44,302
Total kWh Saved	-44,302
Emissions Factor	0.55
Total CO2e from Electricity (kgs)	-24,437
	21,107
CO2e from Vehicle (kgs)	
Minutes In Use	
Pre-Project Baseline Maintenance Min.	0
Removed Technology Maintenance Min.	0
Installed Technology Maintenance Min.	0
Installation Vehicle Min.	25,620
Total Minutes Used	-25,620
Vehicle Fuel Consumption Per Minute	0.00
Emissions Factor Per Unit of Fuel	0.00
Total CO2e from Vehicles (kgs)	0
Total CO2e Emissions Avoided (tonnes)	-24
CO2e Penalty (\$/ton)	0.00
Total CO2e Savings (\$)	. 0
Total CO2e Savings 25 W LED SL: 24W	0

ENVIRONMENTAL IMPACT	
Total Environmental Impact	Year 1
Electricity Savings	
Electricity Consumption - Business As Usual	
Business As Usual kWh Consumption	275,711
Total kWh Saved	178,547
CO2e Emissions Avoided (tonnes) CO2e from Electricity (kgs)	
Total CO2e from Electricity (kgs)	98,486
CO2e from Vehicle (kgs) Total CO2e from Vehicle (kgs)	0
Total CO2e Emissions Avoided (tonnes)	98
CO2e Savings (\$)	
Total CO2e Savings (\$)	0

250 HPS Flood: 250W	
CO2e Savings	
CO2e Emissions Avoided (tonnes)	
CO2e from Electricity (kgs)	
kWh Saved	
Pre-Project Baseline Contribution kWh	50,709
Removed Technology kWh During Project	00,700
Installed Technology kWh During Project	0
Total kWh Saved	50,709
Emissions Factor	0.55
Total CO2e from Electricity (kgs)	27,971
CO2e from Vehicle (kgs)	
Minutes In Use	
Pre-Project Baseline Maintenance Min.	0
Removed Technology Maintenance Min.	0
Installed Technology Maintenance Min.	0
Installation Vehicle Min.	0
Total Minutes Used	0
Volticle First Opportunition Brooking	
Vehicle Fuel Consumption Per Minute Emissions Factor Per Unit of Fuel	0.00
Total CO2e from Vehicles (kgs)	0.00
Fotol OO20 Holli Veriloles (kgs)	U
Total CO2e Emissions Avoided (tonnes)	28
	2.0
CO2e Penalty (\$/ton)	0.00
Total CO2e Savings (\$)	0.00
Total CO2e Savings 250 HPS Flood: 250W	0

120 W LED Flood: 120W

W LLD I lood. 12	:044	
CO2e Savings		
CO2	e Emissions Avoided (tonnes)	
	CO2e from Electricity (kgs)	
	kWh Saved	
	Pre-Project Baseline Contribution kWh	0
	Removed Technology kWh During Project	0
	Installed Technology kWh During Project	26,457
	Total kWh Saved	-26,457
	Emissions Factor	0.55
	Total CO2e from Electricity (kgs)	-14,594
	total GOZE HOIT Electricity (kge)	11,007
	CO2e from Vehicle (kgs)	
	Minutes In Use	
	Pre-Project Baseline Maintenance Min.	0
	Removed Technology Maintenance Min.	0
	Installed Technology Maintenance Min.	0
	Installation Vehicle Min.	3,060
	Total Minutes Used	-3,060
İ	Vehicle Fuel Consumption Per Minute	0.00
	Emissions Factor Per Unit of Fuel	0.00
	Total CO2e from Vehicles (kgs)	0
To	otal CO2e Emissions Avoided (tonnes)	-15
000	Density (Olion)	0.00
	e Penalty (\$/ton)	0.00
Total CO2e S	avings (\$)	·

otal Project Installation Costs		/ear 1
Capital Expenditure	૽ૡૡઌ૽૽૽૽ૺૺૺ૽ૡૺૡ૽૽૽૽ૺઌૡૺ૱ૹૡૡ૽૽ૹૡૹૺૹૢૺ૽૽ૹઌ૽૽ૺૡ૽૽ૺૡ૽૽ૺ૱ઌૡ૽૽ૡૺૺ૽ૺઌઌ૽૽ઌ૽૽ૺઌ૽૽ઌ૽ૺઌ૽૽ઌઌ૽ઌ૽૽ઌ૽૽ઌ૽૽ઌૺ૱ૡૺ ૡ	
Installatio	n Cost	
	Installation Material Cost	
	Total Installation Material Cost	\$140,655
	Installation Labor Cost	
	Total Installation Labor Cost	\$57,252
	Installation Vehicle Cost	
	Total Installation Vehicle Cost	\$23,440
	Installation Disposal Cost	
	Total Installation Disposal Cost	\$0
Total II	nstallation Cost	\$221,347
	John Haller Cook	QLL 1,0 17
Fixture Re	ebate	
Total F	ixture Rebate	\$0
Installation	n Project Overhead	
Total Ir	nstallation Project Overhead	\$0
	nditure (WITH REBATE)	\$221,347
Total Capital Expe	nditure (WITHOUT REBATE)	\$221,347
Total Project Installation Co	sts (WITH RERATE)	\$221,347
Total Project Installation Co		\$221,347